

C
Izh6
1941/42
cop. 3.



LIBRARY
OF THE
UNIVERSITY
OF ILLINOIS

C
IZ 86
1941/42
cop. 3

UNIVERSITY OF ILLINOIS
HEALTH SERVICE

Departments in Urbana-Champaign

Twenty-sixth Annual Report
1941-1942

J. HOWARD BEARD, M.D., Health Officer

Urbana, Illinois



Digitized by the Internet Archive
in 2012 with funding from
University of Illinois Urbana-Champaign

<http://www.archive.org/details/annualreport194142univ>

TABLE OF CONTENTS

1941-42

Page

FOREWORD

SERVICES

Routine Office Calls	1
Medical Examinations	2
Students	2
High School Pupils	2
Civil Service Employees	2
Civil Aeronautics	3
Athletic Examinations	3
Foodhandlers	3
Examinations for Marriage	4

FOLLOW-UP

New Students	4
Albuminuria	4
Heart Disease	5
Tuberculosis	5
Mental Hygiene	6

COMMUNICABLE DISEASE

Students	6
Faculty and Civil Service Employees	9
Vaccinations and Immunizations	9

COOPERATION WITH OTHER DEPARTMENTS

Military Science and Physical Education	10
Permanent Classifications	10
Advanced Corps Students	10
Temporary Excuses	11
The Personnel Bureau	11
College of Engineering	11

INSTRUCTION IN HYGIENE

Proficiency Examination	13
Hygiene 1	13
Hygiene 2 and 5	14
Hygiene 6 and 7	14
Hygiene 8	14
Hygiene 10	15
Hygiene X3	15

TABLE OF CONTENTS

	Page
SANITATION	15
FIRST AID	15
STATE LABORATORY SERVICE	16
REQUESTS FOR INFORMATION	17
THE GENERAL PRACTITIONER AND THE HEALTH SERVICE	17
HOSPITALIZATION	18
The Student Body	18
Civil Service Employees	20
Hospital Insurance	20
Local Hospitals	21
STUDENT DEATHS	22
MC KINLEY HOSPITAL	
Patients	22
Contagious Disease	23
Laboratory Service	24
APPENDIX A	
Types of Medical Attention to Students and Employees	26
Monthly Distribution of Visits	26
Classification of Injuries to Civil Service Employees for Five Years	26
Laboratory Examinations	27
Cases Cared for at McKinley Hospital	28
Average Hospital Stay	28
Cases Cared for at McKinley Hospital	29
Elementary Hygiene	29
Advanced Hygiene	29
First Aid	29
Nurses' Aide	29
Family History of Inheritable Diseases	30
Injuries	30
Operations	30
Use of Tea, Coffee, and Tobacco	31
Sleeping Habits	31
Students Giving Histories of Typhoid Fever	31

TABLE OF CONTENTS

	Page
Relative Occurrence of Certain Diseases in Histories of the Class of 1945	32
General Development	33
Color of Eyes	33
Color of Hair	33
Teeth	34
Abnormalities of the Heart	34
Thyroid Enlargement	34
Chest and Lungs	35
Condition of Abdominal Walls	35
Incidence of Enlarged Lymph Glands	35
Hernia in Men	35
Genito-Urinary Organs	36
Cryptorchidism	36
Urinalysis	36
Glycosuria and Albuminuria Over a Period of Years	37
Foot Abnormalities	37
Foot Abnormalities Over a Period of Years	38
Spine Abnormalities	38
Nose Abnormalities	38
Throat Abnormalities	39
Percentage of Students with Tonsils Removed Over a Period of Years	39
Ears	39
Eyes	40
Posture	40
Incidence of History of Venereal Disease	40
Incidence of Vaccination Scars	41
Skin Diseases	41

APPENDIX B

Summary of Medical Histories	42
Summary of Physical Examinations	44
Subnormal Development of Men Students as Determined by Minimum Standards of the War Department	49

APPENDIX C

Civil Service Examinations	52
Summary of Physical Examinations	53

TABLE OF CONTENTS

	Page
APPENDIX D	
University High School Examinations	57
Summary of Physical Examinations	59
APPENDIX E	
Cases Encountered During the Year.....	62
Injuries, Wounds, Sprains	67
Recapitulation.....	72
APPENDIX F	
General Science.....	75
Biology.....	78
Hygiene	81
Physiology.....	83

FOREWORD

As health is the vital principle of both contentment and competence, the Health Service of the University of Illinois strives to promote health and through it, dynamic living. By medical examinations, personal conferences, classroom instruction, and demonstrations of disease control, it makes a sustained effort to improve the physical condition of students and provide safe and sanitary surroundings in which they may live, learn, and play.

The facilities of the Health Service are available to all students who desire information concerning any matter pertaining to their personal well-being, the safety of their surroundings, modern medicine, or sanitation. It renders first aid to the injured, detects disease in its incipiency, and insures prompt treatment.

In conferences with students, advice is given pertaining to the service of specialists, diets to be followed, or schedules to provide rest and recreation as well as work. As a result of such interviews, students become better adjusted, seek correction of their defects, or go to the hospital for prompt attention, an early recovery, and to avoid complications.

SERVICES

I. Routine Office Calls

There were 12,120 students enrolled in the University at Champaign-Urbana during the academic year 1941-1942. All but a very few of these called at the Health Service Station one or more times during the year, for a total of 45,749 visits, or an average of 3.86 calls per student. The average call for women was 4.02; for men, 3.68; for upper-classmen, 3.22; for freshmen, 4.50. In addition, there were 2,514 visits by University employees, an increase of nearly 9%, and 114 miscellaneous calls making a grand total of 48,377 visits.

A total of 4,790 calls were made by students because of the required physical examinations, and 4,143 for conferences relative to them. For the last seventeen years, freshman men have made about 2.13 more visits per student than upper-class men; and freshman women, 0.56 more visits per student than upper-class women. The greater number of calls by freshmen are caused by their somewhat greater susceptibility to infectious disease, less knowledge of hygiene, less alertness in anticipating and caring for illness in its incipiency, and greater need of adjustment.

In caring for students and employees, 14,763 laboratory tests were made during the year; 10,973 at the Health Service

Station, as shown in Table 1, and 3,790 by the State Laboratory. Special tests were given 49 students who wished motor vehicle permits and 196 employees desiring to drive University cars.

Table 1

Laboratory Tests

Urinalyses.....	10,827
Basal metabolism tests	69
Heart-O-Meter examinations	36
Telebinocular examinations.....	35
Audiometer tests	6
Total.....	10,973

II. Medical Examinations

Complete physical examinations were given to 4,790 students during the year. Of these, 3,440 were men and 1,350 were women. Of this total, 303 were individuals who did not matriculate.

A total of 75 pupils seeking admission to the University High School were examined. Of these, 40 were boys and 35 girls. Of this group approximately 62% had had their tonsils removed, none had serious abnormalities, and all had been vaccinated against smallpox--an excellent and unusual record of immunization in Illinois for this preventable disease.

Because of the labor turnover associated with war, the increase in the number of workers incidental to servicing the Union Building and the Residence Hall for men, 365 domestics and laborers were examined, who were prospective Civil Service employees.

Of these, 251 were men and 114 were women.

There were 40 physical examinations given to students who were candidates for the primary course in the aviation training program.

Examinations for chauffeurs were given to 187 men and 9 women wishing to drive University automobiles. Of these, 174 were considered to be physically normal for driving, and 22 were found to have handicaps which made them increased risks when operating a car. A total of 49 students requesting motor vehicle permits were examined: 42 were found to be normal and 7 had defects which made driving more hazardous than ordinary. Fortunately, most of these abnormalities were associated with vision and were correctible by the use of glasses.

A total of 4,399 athletes were examined before participation in intercollegiate and intramural sports. Eight were rejected for the former, and 2 for the latter. By the gradation of games on the basis of speed, strength, and endurance and by proper preliminary training, a program of activity is possible in which each student gets an opportunity to exercise under conditions of greatest safety.

During the year, 1,412 foodhandlers were examined to determine their physical fitness and disease carrier states before serving in the food distributing agencies of the University. This total exceeds that of last year by 549 employees and represents

a very material increase in the service rendered in connection with foodhandlers.

Premarital examinations have been available to students since the enactment of the Saltiel law. During the year, 100 of them received the benefit of this service. This is an increase of 35% over the preceding year, and is indicative of the influence of war upon the marriage rate.

FOLLOW-UP

I. New Students

At the time that new students take their physical examination, a brief summary of the abnormal findings, if any, is made on their cards. Subsequently, they are recalled for conferences concerning the defects discovered, and are given advice regarding such correction and alleviation of their conditions as may be possible. A total of 3,117 men and 1,012 women were seen for this purpose.

II. Albuminuria

A total of 179 new students examined on matriculation in 1941-1942 were found to have albuminuria. Repeated examinations showed the condition to be transient in 85 and persistent in 21 students. The latter were referred to their family physicians or to urologists for further study and treatment. Ten Civil Service employees had albuminuria. Of the 75 University

High School students examined, 4 had albuminuria. All of those seen at the Health Service Station who have persistent albuminuria are kept under observation.

III. Heart Disease

Of the 4,790 students examined, 37 were found to have cardiac abnormalities--a rate of 7.72 per 1,000. These have been kept under observation, have been repeatedly examined, and have been excused from physical education where the condition was marked or assigned to a program of adapted exercise which will protect them against undue strain.

IV. Tuberculosis

During the year 74 students have requested tuberculin tests, of which 15 proved to be positive and 59 negative. The percentage of positive reactors is about what should be expected in a group of the age and composition of Illinois students. Those who reacted positive have been urged to have roentgrams of their chests to establish, as far as possible, the extent of their infection and to have a record for future comparison.

A detailed history, a thorough physical examination, and a "follow-up" of suspicious cases are not enough to discover active tuberculosis in its minimal stage. Only by the wide use of the tuberculin test and X-ray of positive reactors can those with active tuberculosis be discovered in the student body and the greatest protection be provided for the University

population. This procedure affords the best opportunity to discover tuberculosis in its earliest stage and to give treatment when "arrest" of the disease is most likely.

V. Mental Hygiene

In addition to a regular physical examination, each student fills out a questionnaire which gives an insight into his health, mental state, habits, and living conditions. It supplements his medical record and physical examination, and is an important factor in determining his emotional development, attitude, and adjustment.

* Students found to have difficulty in adapting themselves to the demands of University life are seen periodically, and every effort is made to give them all possible assistance in adjusting themselves to their environment. They are encouraged to enter into forms of extra-curricular activity which will help them to find themselves and to achieve satisfaction in their work.

COMMUNICABLE DISEASE

I. Students

There were fewer cases of communicable disease in the University population this year than last. However, the communicable disease rate, including colds, per 1,000 students was 136.72 for 1941-1942; for 1940-1941, the year before, it was 129. A comparison of the cases occurring for the two years is shown in Table 2.

Although 72.2 per cent of the students had had measles (rubeola) on matriculation, mass immunity, presumptive resistance, or previous good fortune in avoiding contact did not provide the "shield of protection" for 32 susceptible students. Many students do not know when they are exposed or that they have this disease until a doctor tells them the cause of their rash; by this time, a number of their associates have acquired the disease.

Table 2

Incidence of Communicable Disease
in the Student Body for the Biennium 1940-42

	<u>1941-42</u>	<u>1940-41</u>
Coryza.....	628	724
Coryza (hospitalized)	875	734
Vincent's Angina.....	62	50
Chickenpox.....	6	13
Measles.....	4	16
German Measles.....	32	83
Mumps.....	13	10
Scarlet Fever.....	5	13
Diphtheria.....	1	6
Poliomyelitis	---	1
Streptococcus Sore Throat	3	27
Impetigo contagiosa.....	10	15
Scabies.....	12	1
Amoebic Dysentery.....	6	1
Total	1,657	1,694

By modified quarantine for scarlet fever permitted by the State Department of Health, the loss of time from the classroom has been reduced to the minimum compatible with safety. Of the 171 students exposed to scarlet fever, 74 gave a positive Dick

test, but were allowed to attend classes after daily observation. This procedure saved a total of 444 school days or the equivalent of a full semester for 4 students.

Table 3

Modified Quarantine for Scarlet Fever

<u>Number Exposed</u>	<u>Dick Tests</u>	<u>Certificates of having had the disease</u>
<u>Positive</u>	<u>Negative</u>	
171	74	12

Table 4

Disposition of Students Exposed to Communicable Disease

Contacts	1,940
Number permitted to attend classes under daily observation	339
Number requiring no isolation under Regulations of the State Department of Health	1,601

During the year, 3 students were found to have gonorrhoea; and 1 syphilis. Table 5 gives the result of 1,793 serologic tests done upon students for syphilis.

Table 5

Serologic Tests Done Upon Students for Syphilis

<u>Test</u>	<u>Negative</u>	<u>*Positive</u>	<u>Total</u>
Kahn test	1,789	4	1,793

* Three did not verify

II. Faculty and Civil Service Employees

Occurrence of communicable diseases in the families of faculty members and Civil Service employees was less than in previous years. Only 7 cases were reported, of which 2 were chickenpox, 1 scarlet fever, 1 mumps, and 3 Vincent's Angina.

A Kahn test is a part of the routine physical examination of Civil Service employees. A total of 7 were found to have either late or latent syphilis. The incidence of lues is higher in this group than in students because age permits a longer period of exposure and the ordinary laborer usually possesses less information concerning the disease.

III. Vaccinations and Immunizations

This year, as last, students and faculty members who expected to study and to do research in the Rocky Mountain region during their vacation, were inoculated against spotted fever. A total of 98 men and 5 women were immunized. The vaccine was furnished without cost by the special laboratory of the United States Public Health Service at Hamilton, Montana. Spotted fever, however, is no longer confined to the Rocky Mountains but occurs in most of the states of the Union. There were 25 cases in Illinois this year.

Typhoid and smallpox vaccines were furnished free by the State Department of Health. These biologicals were used to immunize students, employees, and others who wished to serve food

on University property.

Table 6

Immunizations for Communicable Disease

<u>Disease</u>	<u>Number of Persons</u>
Smallpox.....	1,654
Spotted fever.....	103
Typhoid fever.....	2,970
Typhus.....	3
Total	4,730

COOPERATION WITH OTHER DEPARTMENTS

I. Military Science and Physical Education

(a) Permanent Classification: During the year it was necessary to assign 250 men and 138 women to individual gymnastics for special training. Because of marked physical abnormalities or organic disease, 308 students were classified as unable to take either regular physical education or military.

There were 219 students permanently excused from military because of failure to meet the minimum requirements of the Medical Department of the Army. Seventeen students were reassigned to military because of improvement or correction of their physical defects.

(b) Advanced Corps Students: Due to the discontinuance of the Reserve Officers Training Camps during the summer months, the Health Service did not administer any typhoid inoculations or smallpox vaccinations for the Military Department. Six hundred and nineteen urinalyses were made upon candidates for advanced

military training.

(c) Temporary Excuses: During the year 136 men and women students were given temporary deferment from military, physical education, or both; 17 men from military only, 25 men and 94 women from physical education only. They had undergone recent operations, or had lost so much time on account of illness that they could not satisfactorily complete the work for the semester.

Students suffering from certain forms of dermatitis, sinusitis, infection of the middle ear, or perforation of the ear drum were transferred from swimming to a form of exercise less likely to cause them trouble. A total of 20 recommendations were made to change students from one type of physical education to another or for modifications of their required exercise.

II. The Personnel Bureau

The Bureau has referred students to the Health Service for a recheck of their physical condition, metabolism tests, or further determination of their acuity of vision. Thirty-five students were given telebinocular examinations, and sixty-nine basal metabolic estimates.

III. College of Engineering

Students who were applying for training in the Civilian Pilot Training program were given a physical examination to determine their possibility of qualifying for the course. This procedure saved a number of applicants from paying for a special

examination when it was determinable in advance that they could not meet the physical standards required for Civilian Pilots.

INSTRUCTION IN HYGIENE

Compilation of the results of 1,704 questionnaires filled out by freshmen registered in Hygiene 1, 2, and 5 revealed that only 88 teachers of hygiene in high schools attended by those students, gave full time instruction in health education. The greater percentage taught the subject as a "side line." The State of Illinois is still far behind in having its teaching of hygiene and sanitation of a quality comparable to their importance to the individual, to his community, and to the State.

The survey (see Appendix F) reveals, furthermore, that students who do not attend college do not receive sufficient training in high schools in personal health, nutrition, sanitation, the control of communicable disease, and healthful living to meet intelligently the demands of our highly complex society. The seriousness of this situation becomes apparent when we recall that only 10 per cent of those graduating from high school attend institutions of higher learning, and that science can only be applied to the general welfare in a democracy by support of the people. This educational deficiency assumes the aspects of a menace in a chaotic world of rapid transportation, shifting troops, campaigns in the tropics, etc.

I. Proficiency Examination

A total of 31 students passed the proficiency test in hygiene and received credit in the subject. Their distribution by colleges is given in Table 7.

Table 7

Classification of Those Who Passed
Hygiene 2 and 5 Proficiency Examinations
by Colleges

Liberal Arts and Sciences.....	21
Engineering	3
Agriculture	4
Commerce.....	3
Total.....	31

II. Elementary Hygiene 1

To cooperate with the General Division of the College of Liberal Arts and Sciences in the formation of its special curriculum for selected freshmen, the regular course, Hygiene 2 and 5, meeting twice a week for one semester with two hours' credit was split into a two-semester course meeting once a week for an hour's credit each semester. This course extended over a full year and was given to 86 students the first semester and 75 the second semester.

This arrangement seemed necessary to help the College of Liberal Arts and Sciences in its experimental program but it is distinctly not in the interest of better instruction in freshman hygiene and sanitation. With the course meeting only once a week,

continuity is exceedingly difficult because, with the intervention of holidays, the class may meet but once in two weeks, or even three weeks. Courses conducted on this plan lose prestige. They are likely to prove uninteresting to the student and discouraging to the instructor because of the necessity of so condensing the subject matter in order to complete each topic at a session that inadequate instruction occurs in a number of instances. This is peculiarly unfortunate in a course like Hygiene and Sanitation, which is not only essential in normal times, but may prove life-saving to students who in a few months may find themselves in the Army serving in tropical or sub-tropical climates.

III. Elementary Hygiene 2 and 5

In the first semester, elementary Hygiene and Sanitation was taught to 1,591 students, of which 1,116 were men and 475 women. The total registration for both semesters in elementary Hygiene and Sanitation was 2,983. There were 22 sections the first semester and 21 sections the second semester for men and 9 for the women each semester.

IV. Hygiene 6 and 7

A new elective course, First Aid, was offered for the first time to men and women students during the second semester. This was in keeping with the general trend of the University in offering courses that were more fitted to present day needs. There were 182 students enrolled in the course.

V. Hygiene 8

Another war-time course, Nurses' Aide, was offered during the second semester. The course was open to women, and

had an enrollment of 21 students.

VI. Hygiene 10

The advanced course in hygiene for coaches, physical education majors, and teachers had a total registration for the year of 117 students. During the first semester the enrollment was 88 students; in the second, 32.

VII. Hygiene X3

In cooperation with the Director of the University Extension Service, a correspondence course in hygiene has been offered, which had a registration of 29 students. The quality of the work presented by those taking it was most satisfactory. This training should better prepare them to protect themselves and their families and to function more intelligently as citizens interested in improving living conditions in their community.

SANITATION

Immediate attention has been given to reports which have been received concerning the conditions of the swimming pools and water supply. No colon bacilli were reported found during the year. The pools and water supply of the University have been well supervised by an able and conscientious Sanitary Engineer.

FIRST AID

A total of 151 first aid cabinets is being maintained in the various buildings on the campus. They are much used and are visited weekly or twice weekly, depending upon their location,

to replace supplies as needed.

It has been customary for a number of years for members of the Health Service staff upon request, to attend certain University functions in order to render first aid if necessary. This service was given at the Electrical Engineering Show, the Physical Education Tournaments, Farm and Home Week Programs, and the Commencement Exercises.

In cooperation with other departments the offices of the Health Service were also made available in emergencies to guests of the University. Its facilities were offered to those attending Farm and Home Week, 4-H Club Conventions, and short courses given by the University.

STATE LABORATORY SERVICE

As a part of the routine work of the Health Service, various laboratory services were given the students and Civil Service employees. In many instances these tests were essential either in making effective the regulations of the University concerning foodhandlers or in diagnosing and controlling communicable disease. The bacteriological tests recorded herewith were made by the branch laboratory of the State Department of Health on specimens submitted by members of the medical staff of the Health Service. It is a pleasure to acknowledge our indebtedness to it.

Table 8

State Laboratory Tests			Total
	Negative	Positive	
Kahn tests	1,937	13	1,950
Bacteriological examinations of excreta	1,385	--	1,385
Smears from the urethra	161	5	166
Smears from Vincent's Angina	63	30	143
Diphtheria cultures	117	7	124
Sputum examinations	15	--	15
Blood smear for malaria	4	--	4
Agglutination tests for undulant fever	1	--	1
Eye cultures	1	--	1
Hemolytic streptococcus	1	--	1
Total	3,685	105	3,790

REQUESTS FOR INFORMATION

A total of 240 citizens of the State have requested information on various aspects of public health. Requests were also received for reprints of articles by members of the department and for copies of forms used by the Health Service. Questionnaires from numerous sources have been many, varied, and often quite comprehensive. This form of survey seems to be increasing in popularity and in the demands it makes upon the time of those requested to fill them out.

THE GENERAL PRACTITIONER AND THE HEALTH SERVICE

The Medical staff of the Health Service has had the most helpful cooperation of local and family physicians in caring for students. A total of 295 letters have been received concerning the physical conditions of students who are or have

been patients of these doctors. From Table 9 it seems they have made 673 certifications relative to communicable disease.

Table 9
Certificates of Immunity

Smallpox		
By having the disease	8	
By vaccination	107	
Typhoid fever		
By having the disease	6	
By inoculation	127	
Diphtheria		
By immunization	9	
Scarlet fever		
By having the disease	268	
By immunization	1	
Dick test negative	147	
Total	673	

HOSPITALIZATION

I. The Student Body

The facilities of the McKinley Hospital are a great insurance for the student body. A total of 2,782 students was admitted to the Hospital for 9,754 days, an average of 3.51 days per patient.

Of all the students hospitalized, 89.9 per cent were admitted to McKinley Hospital and only 10.1 per cent to other hospitals. The local hospitals, however, had 11.5 per cent of the student patronage in hospital days; the McKinley, 88.5 per cent. This difference between percentage of cases and hospital days is

due to the low average stay (3.51 days) of students in the McKinley Hospital for medical cases and the longer hospitalization in local institutions for surgical treatment.

The number of students admitted to local hospitals during the academic year was 3,095. Of this number, 2,429 were sent to the hospital by local doctors, and 566 went directly from the Health Service Station. The 566 who went to the hospitals from the Health Service Station chose 50 different doctors to attend them.

As will be seen from the following table, 1,198 students with communicable disease were admitted to the McKinley Hospital for a stay of 4,486 days or an average of 3.7 days per patient. Influenza was responsible for 70 or 5.8 per cent of the cases, and 347 or 7.7 per cent of the hospital days.

Table 10

Student Cases of Communicable
Disease Cared for at
McKinley Hospital

<u>Disease</u>	<u>Cases</u>	<u>Days</u>
Chickenpox	4	36
Conjunctivitis	2	5
Coryza	869	3,133
German measles	66	129
La Grippe	36	129
Influenza	70	347
Measles	119	383
Mumps	24	226
Pneumonia	2	14
Scarlet Fever	4	77
Vincent's Angina	2	7
Total	1,198	4,486

II. Civil Service Employees

During the year, University employees suffered 268 accidents in the line of duty. It was necessary to have 43 roentgrams made in order to exclude possible fractures. Of those injured, 176 required only minor surgical attention and 92 were referred to outside surgeons or specialists for prolonged treatment. Nine employees were hospitalized for a total of 56 days, or an average of 6.2 days per patient. Two of these cases were admitted for herniotomy, and each remained in the Hospital for two weeks.

III. Hospital Insurance

Hospital insurance was available to students during the year 1941-1942. The plan, as usual, was ably promoted and carried out by the office of the Dean of Men. Its energetic campaign induced 5,936 students, faculty members, and employees to join during the first semester, and 4,721 the second; 48.98 per cent of the student enrollment for the first semester, and 38.95 per cent for the second semester of 1941-1942 subscribed to hospital insurance.

This year, as under the old plan, two types of membership were made available to students, faculty members, and employees. A \$3.00 premium provided for 28 days' ward care in any one semester plus \$5.00 allowance for laboratory charges; a \$5.50 premium which, in addition to the above, included payment

toward the physician's bill at the rate of \$3.00 per day for the two-thirds the number of days hospitalized during the semester up to a maximum of two-thirds of 23 days at \$3.00 per day or a total of \$56.00.

It is regrettable that more students do not join the Association or otherwise provide protection for themselves, particularly during the second semester when sick rates are higher and hospitalization is often badly needed by those who can least afford to pay for it. As long as less than half of the student body has hospital insurance, both the control of communicable diseases and the rendering of prompt treatment for the ill leave much to be desired. There is also a correlation between delay in getting medical attention, increase of complications, and the severity of the disease.

A number of insurance companies of varying degrees of merit are trying to sell insurance to students. The extent and quality of the service they offer are not yet equal to that of the Student Mutual Benefit Hospital Association. They generally offer much that will rarely be needed, but are quite conservative where service is most likely to be used. Such action is ~~essential~~ where rates are low, overhead is considerable, and profits have to be made.

IV. Local Hospitals

The Mercy and Burnham Hospitals admitted 313 students for a total of 1,272 days, an average of 4.06 days per patient. The average length of stays in these hospitals was 6.73 and 3.58,

respectively, because they admit students requiring surgery.

STUDENT DEATHS

It is with much regret that I report the death of 5 students during the year. Of these deaths, one was caused by an automobile accident, one died of Hodgkin's disease, one of pneumonia, and two by suicide.

MC KINLEY HOSPITAL

I. Patients.

The Hospital was open for the twelve months, July 1, 1941 to June 30, 1942. A total of 3,159 patients were treated for a total of 9,683 days or for an average stay per patient of 3.877 days. Of this number 2,426 were bed patients and 733 out patients. The highest number of bed patients in any one day was 76.

The total number of patients admitted to the Hospital was 3,159; of these 2,585 were students, 504 were members of the faculty, and 70 were outsiders who were chaperones, members of the family of operators of lodging houses for students, etc.

Of the patients entering the Hospital, 1,963 were members of the Mutual Benefit Hospital Association. Although only 44% of the students were members of the Hospital Association for both semesters, 62% of the total hospitalized were members. The benefits paid on these memberships amounted to \$24,661.00 or \$12.56 per patient.

Failure of students to join the Hospital Association results in greater exposure of their associates to communicable disease and of themselves to serious complications when ill. Grave cases of pneumonia and of peritonitis complicating appendicitis are more common in those who are not members of the Association and delay going to the Hospital until they are too sick to avoid doing otherwise.

The student who saves himself the cost of a membership in the Hospital Association, who makes provision for his health secondary to obtaining an education is like the man who pays for a car by not buying oil, and fails to arrive because his machine breaks down.

II. Contagious Disease

McKinley Hospital admitted 1,198 cases of contagious disease; their types and number are given in the following table:

Table 11

McKinley Hospital Contagious Disease Cases

<u>Disease</u>	<u>Number of Cases</u>
Chickenpox	4
Conjunctivitis	2
Coryza	869
German measles	66
Influenza	70
La Grippe	36
Mumps	24
Pneumonia	2
Red measles	119
Scarlet fever	4
Vincent's Angina	2
Total	1,198

In special instances, where it was to the advantage

of the University, patients who were neither students nor employees were admitted to the McKinley Hospital. There were 70 such admissions.

III. Laboratory Service

The Clinical Laboratory of the Hospital made 3,120 tests as listed in the following table:

Table 12

Clinical Laboratory Tests

Urinalysis	2,141
Blood examinations	
Complete count	360
White and differential	264
White count	77
Matching	5
Specimens for State	18
Smears for malaria	1
Haemoglobin estimation	1
Determination of coagulation time	1
Sedimentation	29
Total blood tests	756
Throat smears and cultures	201
Basal metabolism determinations	10
Electrocardiograms	12
Total clinical laboratory tests	3,120

A total of 911 roentgrams were made by the X-ray laboratory which may be classified as follows:

Table 13

X-Ray Laboratory Examinations

Roentgrams

Chest	499	Kidney	1
Ankle	74	Jaw	3
Finger	44	Dental	4
Foot	39	Femur	1
Knee	28	Gastro-intestinal	1
Wrist	40	Humerus	1
Elbow	13	Colon filling	1
Tibia	12	Pelvis	10
Shoulder	12	Mastoid	1
Hand	24	Abdomen	3
Clavicle	15	Heart	2
Toe	11		
Ribs	16	Total Roentgrams	902
Spine	25		
Skull	7		
Sinuses	8		
Nose	3		
Hip	2		
Radius and ulna	2		

Fluorescopy

Chest	8
-------	---

Pyelography 1

Total X-Rays	911
--------------	-----

APPENDIX A

TYPES OF MEDICAL ATTENTION TO STUDENTS AND EMPLOYEES

Table I
TYPES OF MEDICAL ATTENTION TO STUDENTS AND EMPLOYEES

	<u>1940-41</u>	<u>1941-42</u>
Advice in case of illness.....	3572	3588
First aid in injury and infection.....	2946	2678
Sent to hospital.....	773	566
Referred to specialist.....	1812	1638
Urinalyses.....	11094	10872
Complete physical examinations of students and employees.....	5551	4166

Table II
MONTHLY DISTRIBUTION OF VISITS

	<u>Student</u> <u>Men</u>	<u>Civil Service</u> <u>Men</u>	<u>Civil Service</u> <u>Women</u>	<u>Miscellaneous</u> <u>Men</u>	<u>Miscellaneous</u> <u>Women</u>	<u>Total</u>
July.....	824	610	154	64	9	--
August.....	1596	432	125	110	1	--
September.....	5966	1688	154	18	14	--
October.....	4587	1490	93	115	23	--
November.....	2406	1126	66	72	18	1
December.....	2105	1077	85	34	10	--
January.....	2229	1032	120	29	--	--
February.....	3675	1683	149	44	--	--
March.....	3114	1341	167	76	4	--
April.....	2729	1281	260	71	9	--
May.....	1778	968	161	54	6	--
June.....	1380	632	129	114	19	--
Totals	32389	13360	1663	851	113	1
						48377

Table III
CLASSIFICATION OF INJURIES TO CIVIL SERVICE EMPLOYEES FOR FIVE YEARS

	<u>1937-1938</u>	<u>1938-1939</u>	<u>1939-1940</u>	<u>1940-1941</u>	<u>1941-1942</u>
Abrasions.....	13	11	15	18	9
Bites.....	--	--	--	--	1
Blisters.....	--	--	1	--	1
Bruise.....	1	2	4	?	1
Burns, acid.....	5	--	--	--	--
others.....	5	7	8	17	18
Contusions.....	14	13	13	16	17

Table III (Cont'd)

	1937-1938	1938-1939	1939-1940	1940-1941	1941-1942
Nail wounds.....	1	--	--	--	--
Foreign body removed.....	18	20	13	10	11
Fractures.....	3	1	2	3	3
Incisions.....	1	--	1	--	--
Infections.....	11	4	12	1 ^h	15
Injuries.....	7	2	21	11	14
Lacerations, incisions abrasions, and puncture wounds	24	23	27	22	30
Muscle soreness.....	1	--	--	--	--
Pain	--	--	--	--	1
Puncture wound.....	2	5	3	2	8
Sprain and strain	7	17	13	29	13
Wound.....	3	--	7	3	1
Miscellaneous.....	--	1	3	3	1

Table IV

LABORATORY EXAMINATIONS

	Positive	Negative	Total
Urinalyses.....	--	--	10827
Kahn test for syphilis.....	13	1937	1950
Bacteriological examinations of emcreta.....	--	1380	1380
Throat cultures, diphtheria.....	7	117	124
Urethral smears.....	5	166	171
Smear, Vincent's Angina.....	80	63	143
Heart-O-Meter examinations	--	--	36
Resal metabolism tests	--	--	69
Telebinocular examinations.....	--	--	35
Sputum for tuberculosis.....	--	--	15
X-ray examinations.....	--	--	902
Agglutination tests for undulant fever.....	--	--	1
Malaria blood smears.....	--	4	4
Eye cultures.....	--	1	1

Table V
CASES CAPED FOR AT MC KINLEY HOSPITAL

	<u>Communicable</u> <u>Cases</u>	<u>Days</u>	<u>Non-Communicable</u> <u>Cases</u>	<u>Days</u>	<u>Total</u> <u>Cases</u>	<u>Days</u>
July	--	--	16	119	16	119
August.....	--	--	11	56	11	56
September.....	34	73	85	215	119	288
October.....	160	533	265	645	425	1179
November.....	102	419	181	481	283	900
December.....	118	432	174	452	292	834
January.....	180	614	179	562	359	1176
February.....	182	485	121	786	303	1271
March.....	236	893	212	823	448	1721
April.....	133	726	186	628	319	1354
May.....	52	264	128	375	180	639
June.....	1	42	26	125	27	167
Total.....	1198	4486	1584	5268	2782	9754

Table VI
AVERAGE HOSPITAL STAY
Percentage of Students Using Hospitals

<u>Year</u>	<u>Average Hospital Stay</u>	<u>Percent of Students Using Hospitals</u>
1936-1937.....	3.81	24.8
1937-1938.....	3.39	21.43
1938-1939.....	3.45	25.31
1939-1940.....	3.34	24.07
1940-1941.....	3.42	27.3
1941-1942.....	3.51	25.5

Table VII

CASES CAUSED FOR AT MC KINLEY HOSPITAL

	1939-1940		1940-1941		1941-1942	
	Cases	Days	Cases	Days	Cases	Days
Angina.....	2	16	5	17	2	7
Chickenpox.....	1	3	6	74	4	36
Diphtheria.....	2	28	--	--	--	--
Influenza.....	276	1111	107	445	70	347
Lagripoe.....	--	--	89	345	36	129
Malaria.....	1	2	--	--	--	--
Measles.....	--	--	104	558	119	383
Mumps.....	13	104	13	124	24	226
Pneumonia.....	--	--	8	87	2	14
Scarlet fever.	20	440	13	309	4	77
German measles	--	--	219	1097	66	129
Total.....	315	1704	564	3034	327	1348

Table VIII

ELEMENTARY HYGIENE

	Number of Students	Number of Sections
Hygiene V		
Men, First Semester.....	1074	22
Men, Second Semester.....	1018	21
Hygiene II		
Women, First Semester.....	489	9
Women, Second Semester.....	338	9
Hygiene I		
Men, First Semester.....	48	3
Women, First Semester.....	31	1
Men, Second Semester.....	42	3
Women, Second Semester.....	30	1

ADVANCED HYGIENE

	Men	Women	Total
Hygiene X			
First Semester	25	4	29
Second Semester	69	6	75

FIRST AID

	Number of Students	Number of Sections
Hygiene VII		
Men, Second Semester	77	7
Hygiene VI		
Women, Second Semester	101	5

NURSES' AIDE

Hygiene VIII		
Women, Second Semester	21	1

Table IX
FAMILY HISTORY OF INHERITABLE DISEASES

	1944		1945		Total			
	Men %	Women %	Men No.	Women %	Men No.	Women %		
Apoplexy.....	.6	1.74	12	.34	16	1.19	28	.58
Cancer.....	8.2	14.64	302	8.77	236	17.48	538	11.23
Goiter.....	3.4	6.46	107	3.11	91	6.74	198	4.13
Mental disturbances.....	.58	.41	24	.68	16	1.19	40	.84
Diabetes.....	5.74	10.39	195	5.66	156	11.56	351	7.33
Kidney disease.....	1.54	2.58	46	1.34	31	2.30	77	1.61
Epilepsy.....	.13	.06	9	.26	4	.30	13	.27
Tuberculosis.....	5.23	6.90	174	5.06	103	7.63	277	5.78

Table X

INJURIES

	1944		1945		Total			
	Men %	Women %	Men No.	Women %	Men No.	Women %		
Head.....	5.92	1.87	169	4.91	36	2.67	205	4.28
Chest.....	4.27	.90	109	3.17	3	.22	112	2.34
Abdomen.....	.64	.13	35	1.05	--	--	36	.75
Arm.....	15.51	6.20	434	12.62	101	7.48	535	11.17
Leg.....	7.66	4.18	242	7.03	51	3.78	293	6.12
Others.....	1.01	3.41	77	2.24	71	5.26	148	3.09

Table XI

OPERATIONS

	1944		1945		Total			
	Men %	Women %	Men No.	Women %	Men No.	Women %		
Head								
Tonsils.....	52.38	53.62	1849	53.75	780	57.78	2629	54.89
Adenoids.....	25.31	7.32	1180	34.30	306	22.67	1486	31.02
Others.....	3.92	4.95	149	4.33	60	4.44	208	4.34
Chest.....	.32	.27	16	.47	1	.07	17	.35
Abdomen.....	10.54	11.29	427	12.41	141	10.44	568	11.86
Circumcision.....	8.73	--	761	22.12	--	--	761	15.89
Others.....	4.85	5.43	105	3.05	54	4.00	159	3.32

Table XII
USE OF TEA, COFFEE, AND TOBACCO

	1944		1945		Total	
	Men %	Women %	Men No.	Women %	Men No.	Women %
Tea.....	22.25	47.62	855	24.85	634	46.96
Coffee.....	41.28	43.44	1304	37.91	506	37.48
Tobacco.....	34.39	25.02	1235	35.90	367	27.18
None of 3.....	34.40	25.30	1199	34.85	321	23.78
					1489	31.09
					1810	37.79
					1602	33.44
					1520	31.73

Table XIIIP
SLEEPING HABITS

	1944		1945		Total	
	Men %	Women %	Men No.	Women %	Men No.	Women %
Under 6 hrs.....	.21	.41	25	.73	5	.37
6 to 7 hrs.....	11.74	13.11	324	9.42	226	16.74
8 to 9 hrs.....	82.56	79.77	2935	85.31	1056	78.22
10 hrs. & over.....	5.50	6.69	156	4.53	63	4.67
					30	.63
					550	11.48
					3991	83.31
					219	4.57

Table XIV
STUDENTS GIVING HISTORIES OF TYPHOID FEVER

Class of 1932.....	2.83	Class of 1939.....	1.46
Class of 1933.....	3.02	Class of 1940.....	1.14
Class of 1934.....	2.09	Class of 1941.....	.69
Class of 1935.....	2.08	Class of 1942.....	.94
Class of 1936.....	2.21	Class of 1943.....	.94
Class of 1937.....	2.28	Class of 1944.....	.77
Class of 1938.....	2.57	Class of 1945.....	1.08

Table XV

RELATIVE OCCURRENCE OF CERTAIN DISEASES IN HISTORIES OF THE CLASS OF 1945

	1944		1945		Total	
	Men %	Women %	Men No.	Women %	Women No.	Total %
Appendicitis.....	10.14	16.10	380	11.05	177	13.11
Asthma.....	2.91	2.02	86	2.50	24	1.18
Chickenpox.....	61.71	63.80	2091	60.78	971	71.93
Chorea.....	.08	.06	8	.23	1	.07
Constipation.....	1.09	5.64	37	1.08	100	7.41
Diabetes.....	.16	.06	11	.32	3	.22
Diphtheria.....	4.59	3.69	131	3.81	78	5.78
Discharging ear.....	4.45	6.76	162	4.71	103	7.63
Dysentery.....	.29	.76	15	.44	12	.89
Epilepsy.....	.16	--	--	--	--	--
Heart trouble.....	1.94	2.58	79	2.30	32	2.37
Hay fever.....	7.23	7.18	249	7.24	127	9.41
Hernia (rupture).....	2.88	.48	132	3.84	1	.07
Infantile Paralysis....	.69	.90	27	.78	4	.30
Influenza.....	12.52	18.89	382	11.10	278	20.59
Kidney trouble.....	.85	3.27	60	1.74	42	3.11
Malaria.....	2.26	1.74	61	1.77	39	2.89
Measles.....	80.88	76.63	2690	78.20	1052	77.97
German measles.....	17.81	34.10	799	23.23	511	37.85
Meningitis.....	.13	.13	14	.41	5	.37
Mumps.....	52.73	53.41	1824	53.05	702	52.00
Nervous breakdown.....	.08	1.04	10	.29	8	.59
Pleurisy.....	1.41	2.02	43	1.25	35	2.59
Pneumonia.....	10.94	11.63	314	9.13	133	9.85
Rheumatism.....	1.81	2.93	57	1.66	38	2.81
Scarlet fever.....	17.38	18.68	640	18.60	281	20.81
Sinusitis.....	3.95	5.29	122	3.55	89	6.59
Smallpox.....	4.77	3.69	87	2.53	40	2.96
Tonsillitis.....	18.07	25.38	575	16.72	384	28.44
Trachoma.....	.08	.06	2	.06	--	--
Tuberculosis.....	.42	.55	12	.34	5	.37
Typhoid fever.....	.69	.97	24	.66	13	.96
Undulant fever.....	.10	.20	6	.17	1	.07
Whooping cough.....	49.39	62.20	1591	46.25	832	61.63
Others.....	2.13	1.81	66	1.92	45	3.33
IMMUNIZATIONS:						
Diphtheria.....	42.69	42.25	1578	45.87	625	46.30
Scarlet fever.....	18.37	26.34	683	19.35	291	21.56
Smallpox.....	81.01	86.40	2770	80.52	1015	75.19
Thyphoid fever.....	21.33	22.94	744	21.63	229	16.96
TESTS:						
Schick.....	29.02	31.86	1091	31.72	514	38.07
Dick.....	13.02	14.22	501	14.56	249	18.44

Table XVI
GENERAL DEVELOPMENT

	1944		1945		Total	
	Men %	Women %	No.	Men %	Women %	No. %
Excellent	2.21	2.09	9	.26	36	2.67
Good	78.55	93.16	3199	92.99	1273	94.30
Fair	17.78	3.83	226	6.57	40	2.96
Poor	1.44	.20	6	.17	1	.07
BUILD:						
Stocky	7.93	12.20	208	6.05	135	10.00
Medium	68.51	50.97	2552	74.18	705	52.22
Slender	23.55	36.82	680	19.77	510	37.78

Table XVII
COLOR OF EYES

	1944		1945		Total	
	Men %	Women %	No.	Men %	Women %	No. %
Blue	43.57	38.84	1362	39.59	491	36.37
Gray	5.47	6.69	219	6.37	82	6.07
Greenish	7.15	9.06	242	7.03	119	8.82
Hazel	9.26	9.55	329	9.56	156	11.56
Brown	34.23	34.79	1265	36.77	496	36.74
Black .....	.29	1.04	23	.67	6	.44

Table XVIII
COLOR OF HAIR

	1944		1945		Total	
	Men %	Women %	No.	Men %	Women %	No. %
Flaxen	6.08	9.41	211	6.13	143	10.59
Reddish	3.07	6.06	105	3.05	57	4.22
Light Brown....	25.82	26.63	966	28.08	377	27.92
Brown	38.42	29.21	936	27.21	316	23.41
Dark Brown....	18.37	20.64	912	26.51	351	26.00
Black	8.22	8.01	308	8.96	106	7.85
Gray	----	----	1	.03	----	----
Bald	----	----	1	.03	----	1

Table XIX

	TEETH							
	1944		1945		Total		Men	Women
	Men	Women	No.	%	No.	%		
Cavities	19.57	23.03	373	10.84	36	2.67	409	8.54
Absent	41.19	27.33	2120	61.63	360	26.67	2480	51.77
Need cleaning	19.11	3.55	416	12.09	39	2.89	455	9.50
Diseased gums	.50	.27	20	.58	15	1.11	35	.73
No cavities, none absent	41.65	53.48	1101	32.01	706	52.30	1807	37.72
Teeth devital- ized	3.33	4.32	85	2.47	61	4.52	146	3.04

Table XX

ABNORMALITIES OF THE HEART

	1944								1945							
	Men		Women		Men		Women		Men		Women		Total		Total	
	%	%	%	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Abnormalities	.82		.96		29	.84	7	.52	36		36		36		.75	
Irregular pulse	.24		.48		3	.09	6	.44	9		9		9		.18	

Table XXI

THYROID ENLARGEMENT

	1944								1945							
	Men		Women		Men		Women		Men		Women		Total		Total	
	%	%	%	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Enlarged																
Slight.....	82		12.62		6	.17	52	3.85	58		58		58		1.21	
Moderate .....	.02		1.25		1	.03	4	.30	5		5		5		.10	
Marked	--		--		1	.03	--	--	1		1		1		.02	
Evidence of toxicity.....	.05		.34		1	.03	4	.30	5		5		5		.10	

Table XXII
CHEST AND LUNGS

	1944		1945		Total	
	Men %	Women %	No.	%	No.	%
Lungs, abnormal	.45	.20	8	.23	5	.37
Chest:						
Flat	3.65	3.83	63	1.83	51	3.78
Funnel	.69	.48	22	.64	17	1.26
Pigeon	.13	1.88	10	.29	30	2.22

Table XXIII
CONDITION OF ABDOMINAL WALLS

	1944		1945		Total	
	Men %	Women %	No.	%	No.	%
Abnormal	.08	.76	3	.09	6	.44
Hernia	.69	.48	26	.75	3	.22

Table XXIV
INCIDENCE OF ENLARGED LYMPH GLANDS

	1944		1945		Total	
	Men %	Women %	No.	%	No.	%
Epitrochlear	.71	.13	24	.70	---	---
Axillary	1.76	.27	157	4.56	2	.15
Cervical	2.29	5.78	271	7.88	35	2.59
Inguinal	11.29	1.04	837	24.33	5	.37

Table XXV
HERNIA IN MEN

Class of 1932	1.41	Class of 1939	.....	.76
Class of 1933	1.74	Class of 1940	.....	.70
Class of 1934	1.30	Class of 1941	.....	1.20
Class of 1935	1.71	Class of 1942	.....	.86
Class of 1936	.71	Class of 1943	.....	.90
Class of 1937	1.19	Class of 1944	.....	.69
Class of 1938	1.16	Class of 1945	.....	.76

Table XXVI
GENITO-URINARY ORGANS

	<u>1944</u> %	<u>1945</u> No.	<u>1945</u> %
Testes Abnormal .....	.62	27	.78
Circumcision	42.02	1643	47.76

Table XXVII
CRYPTORCHIDISM

Class of 1932 .....	.60	Class of 1939 .....	.03
Class of 1933 .....	.32	Class of 1940 .....	.29
Class of 1934 .....	.70	Class of 1941 .....	.18
Class of 1935 .....	.48	Class of 1942 .....	.12
Class of 1936 .....	.28	Class of 1943 .....	.83
Class of 1937 .....	.32	Class of 1944 .....	.67
Class of 1938 .....	.43	Class of 1945	2.55

Table XXVIII
URINALYSIS

	1944		1945		Total	
	Men %	Women %	Men No.	Women %	Men No.	Women %
Acid	65.63	71.40	2406	69.94	970	71.85
Alkaline	32.89	26.35	1026	29.83	375	27.78
Neutral.....	1.46	1.60	6	.17	6	.44
Sugar	,40	1.81	11	.32	81	6.00
Albumin	3.65	4.95	90	2.62	3	.22

Table XXIX
GLYCOSURIA AND ALBUMINURIA OVER A PERIOD OF YEARS

	Sugar		Albumin	
	Men %	Women %	Men %	Women %
Class of 1932	.06	.48	3.6	2.1
Class of 1933	.09	.85	2.62	1.44
Class of 1934	.21	.79	5.65	2.97
Class of 1935	.22	1.29	5.40	4.2
Class of 1936	.52	1.19	6.7	2.87
Class of 1937	.52	----	4.97	1.15
Class of 1938	.86	2.13	4.59	3.66
Class of 1939	.42	.59	4.94	4.69
Class of 1940	.43	.78	6.06	2.47
Class of 1941	.13	4.81	3.74	6.24
Class of 1942	.11	1.38	1.42	4.51
Class of 1943	----	.37	.089	.97
Class of 1944	.40	1.81	3.65	4.95
Class of 1945	.31	.22	2.62	6.00

Table XXX
FOOT ABNORMALITIES

	1944		1945		Total	
	Men %	Women %	Men No.	Women %	No. %	No. %
Long Arches						
1st degree	12.55	23.03	479	13.92	322	23.85
2nd degree	10.12	12.62	265	7.70	116	8.59
3rd degree	1.73	4.95	73	2.12	90	6.67
Anterior arches	14.97	32.07	565	16.42	459	34.00
Abnormalities of feet	.02	1.18	----	----	----	----

Table XXXI
FOOT ABNORMALITIES OVER A PERIOD OF YEARS

	Long Arches						Anterior Arches Flat	
	1st Degree		2nd Degree		3rd Degree		Men	Women
	Men	Women	Men	Women	Men	Women	%	%
Class of 1935	15.9	19.2	9.5	8.7	1.08	1.6	19.6	35.9
Class of 1936	18.3	36.4	9.5	10.0	.99	2.18	28.3	29.0
Class of 1937	14.3	32.9	7.1	12.3	2.4	2.72	22.2	34.0
Class of 1938	15.82	25.21	6.98	7.84	2.36	1.68	18.98	20.49
Class of 1939	11.92	32.16	5.52	7.03	2.46	1.98	14.47	7.47
Class of 1940	7.84	27.83	2.26	9.95	1.08	2.08	10.29	29.01
Class of 1941	10.48	25.39	5.40	12.76	1.39	4.60	10.28	34.89
Class of 1942	9.92	27.21	5.49	10.94	1.62	2.70	9.78	2.96
Class of 1943	9.04	25.52	6.38	13.76	1.29	4.36	7.46	35.50
Class of 1944	12.55	25.03	10.12	12.62	1.73	4.95	14.97	32.07
Class of 1945	13.92	23.85	7.70	8.59	2.12	6.67	16.42	34.00

Table XXXII
SPINE ABNORMALITIES

	1944		1945		Total			
	Men	Women	Men	Women				
	%	%	No.	%	No.	%	No.	%
Kyphosis	2.45	1.95	70	2.03	27	2.00	97	2.03
Lordosis .....	.69	1.32	39	1.13	32	2.37	71	1.48
Scoliosis	2.02	2.44	44	1.28	70	5.19	114	2.38

Table XXXIII
NOSE ABNORMALITIES

	1944		1945		Total			
	Men	Women	Men	Women				
	%	%	No.	%	No.	%	No.	%
Spur	4.83	.27	66	1.92	---	---	66	1.38
Deviated Septum	11.10	10.59	252	7.33	101	7.48	353	7.37
Atrophied .....	.16	---	---	---	---	---	---	---
Hypertrophy	2.10	2.68	92	2.68	166	12.29	258	5.39

Table XXXIV
THROAT ABNORMALITIES

	1944				1945			
	Men %	Women %	Men No.	%	Women No.	%	Total No.	%
TONSILS:								
Removed	57.10	64.01	1891	54.97	852	63.11	2743	57.26
Tags	3.76	11.36	107	3.11	172	12.74	279	5.80
Pathological	6.35	8.64	62	1.80	134	9.93	196	4.09

Table XXXV

PERCENTAGE OF STUDENTS WITH TONSILS REMOVED OVER A PERIOD OF YEARS

	Men	Women		Men	Women
Class of 1932	37.3	37.2	Class of 1939	49.20	56.26
Class of 1933	42.48	45.56	Class of 1940	46.59	57.54
Class of 1934	42.41	41.1	Class of 1941	51.51	59.71
Class of 1935	45.4	52.2	Class of 1942	50.0	59.62
Class of 1936	44.0	50.1	Class of 1943	48.55	46.52
Class of 1937	45.3	52.1	Class of 1944	57.10	64.01
Class of 1938	52.19	57.19	Class of 1945	54.97	63.11

Table XXXVI

EARS

	1944				1945			
	Men %	Women %	Men No.	%	Women No.	%	Total No.	%
Perforated								
Perforated .....	.61	.62	27	.78	3	.22	30	.63
Cerumen	19.33	13.34	1009	29.33	357	26.44	1366	28.52
Hearing abnormal....	1.04	2.16	50	1.45	32	2.37	82	1.71

Table XXXVII

EYES

	1944		1945		Total	
	Men %	Women %	Men No.	Men %	Women No.	Women %
Abnormal						
Color vision .....	.24	--	14	.41	--	--
Refraction						
O. D. only	3.54	9.55	156	4.53	81	6.00
O. S. only	3.76	8.29	181	5.26	92	6.75
Both O.D. & O.S.	24.56	23.15	1087	31.60	320	23.70
Corrected						
with glasses	13.29	15.06	531	15.44	189	14.00
					720	15.03

Table XXXVIII

POSTURE

	1944		1945		Total	
	Men %	Women %	Men No.	Men %	Women No.	Women %
Restricted						
flexibility .....	.08	1.11	3	.09	10	.75
Excellent	1.12	1.88	8	.23	15	1.11
Good	78.74	88.56	3209	93.29	1224	90.67
Fair	19.14	9.27	213	6.19	99	7.33
Poor .....	.98	.27	10	.29	12	.89

Table XXXIX

INCIDENCE OF HISTORY OF VENERAL DISEASE

1945

	Men		Women		Total	
	No.	%	No.	%	No.	%
Gonorrhea	1	.03	--	--	1	.02

Table XL
INCIDENCE OF VACCINATION SCARS

	1945				Total	%
	Men	No.	Women	No.		
Arm	3032	88.14	801	59.33	3833	80.02
Leg	22	.64	374	27.56	396	8.27
None	386	11.22	175	12.96	561	11.71

Table XLI
SKIN DISEASES

	1945				Total	%
	Men	No.	Women	No.		
Acne	628	18.26	282	20.89	910	19.00
Mycosis	654	19.01	151	11.19	805	16.81
Others	24	.70	14	1.04	38	.79

APPENDIX B
SUMMARY OF MEDICAL HISTORIES

Table I
SUMMARY OF MEDICAL HISTORIES

	<u>Men</u>	<u>Women</u>	<u>Class of '45</u> <u>Total</u>	<u>Class of '44</u> <u>Total</u>
Total number examined	3440	1350	4790	5179
Total number re-examined	3131	1012	4143	4231
Inheritable disease				
Apoplexy (family history)	12	16	28	50
Cancer (" ")	302	236	538	618
Goiter (" ")	107	91	198	222
Mental disturbances				
(family history)	24	16	40	28
Diabetes (family history)	195	156	351	364
Epilepsy (" ")	9	4	13	6
Kidney disease (family history)	46	31	77	95
Tuberculosis (family history)	174	103	277	295
Birthplace				
Illinois	2468	959	3427	3709
Elsewhere	972	391	1363	1370
Work for self-support				
during college	1782	289	2071	2310
Use laxatives frequently	35	88	123	195
Sleep				
Under 6 hours	25	5	30	14
6-7 hours	324	226	550	628
8-9 hours	2935	1036	3971	4236
10 hours and over	156	63	219	302
Habits				
Coffee	1304	506	1810	2169
Tea	855	634	1489	1517
Tobacco	1235	367	1602	1646
None of the three	1199	321	1520	1661
Age started smoking				
Younger than 10 years	4	--	4	4
10-14 years	41	9	50	64
15-19 years	1113	330	1443	1412
20-24 years	64	23	87	156
25 years and over	2	5	7	12
Meals per day				
One	--	--	--	2
Two	19	85	104	132
Three	3400	1259	4659	5016
More than three	21	6	27	29
Weight the past year				
Gained	1270	313	1583	1777
Lost	274	262	536	547
Stationary	1896	775	2671	2855

Table I--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '45</u> <u>Total</u>	<u>Class of '44</u> <u>Total</u>
Easily fatigued.....	70	204	274	373
Subject to frequent colds in				
Nose.....	377	290	667	863
Throat.....	106	110	216	302
Lungs.....	39	24	63	62
When reading, bothered with				
Headaches.....	109	143	252	314
Blurring of vision.....	63	79	142	167
Burning of eyes.....	68	115	183	239
Squinting of eyes.....	37	54	91	118
Watering of eyes.....	59	41	100	137
Twitching of eyes.....	39	39	78	80
Persistently worry.....	44	70	114	187
Have the "blues".....	63	118	181	284
Injuries				
Head.....	169	36	205	249
Chest.....	109	3	112	173
Abdomen.....	36	---	36	26
Arm.....	434	101	535	671
Leg.....	242	51	293	347
Others.....	77	71	148	87
Operations				
Head				
tonsils.....	1849	780	2629	2731
adenoids.....	1180	306	1486	1053
others.....	149	60	209	206
Chest.....	16	1	17	16
Abdomen.....	427	141	568	557
Circumcision.....	761	---	761	327
Others.....	105	54	159	260
Arches of feet painful.....	33	50	83	149
Possible reasons for not				
taking Physical Education	125	81	206	270
Military Science.....	136	---	136	156
Diseases had				
Appendicitis.....	380	177	557	611
Asthma.....	86	24	110	138
Chickenpox.....	2091	971	3062	3226
Chorea.....	8	1	9	4
Constipation.....	37	100	137	122
Diabetes.....	11	3	14	7
Diphtheria.....	131	78	209	225
Discharging ear.....	162	103	265	262
Dysentery.....	15	12	27	22
Epilepsy.....	---	---	---	6
Heart trouble.....	79	32	111	110
Hay fever.....	249	127	376	374

Table I--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '45</u>	<u>Class of '44</u>
Diseases had (Cont'd)				
Hernia.....	132	1	133	115
Infantile paralysis.....	27	4	31	39
Influenza.....	382	278	660	740
Kidney trouble.....	60	42	102	81
Malaria.....	61	39	100	110
Measles.....	2690	1052	3742	4128
German Measles.....	799	511	1310	1157
Meningitis.....	14	5	19	7
Mumps.....	1824	702	2526	2741
Nervous breakdown.....	10	8	18	18
Pleurisy.....	43	35	78	22
Pneumonia.....	314	133	447	577
Rheumatism.....	57	38	95	110
Scarlet fever.....	640	281	921	919
Sinusitis.....	122	89	211	224
Smallpox.....	87	40	127	232
Tonsillitis.....	575	384	959	1041
Trachoma.....	2	---	2	4
Tuberculosis.....	12	5	17	24
Typhoid fever.....	24	13	37	40
Undulant fever.....	6	1	7	7
Whooping cough.....	1591	832	2423	2742
Others.....	66	45	111	108
Immunizations				
Diphtheria.....	1578	625	2203	2205
Scarlet fever.....	683	291	974	1073
Smallpox.....	2770	1015	3785	4273
Typhoid fever.....	744	229	973	1128
Tests				
Schick.....	1091	514	1605	1544
Dick.....	501	249	750	692

Table II

SUMMARY OF PHYSICAL EXAMINATIONS

	<u>Men</u>	<u>Women</u>	<u>Class of '45</u>	<u>Class of '44</u>
			<u>Total</u>	<u>Total</u>
Color of hair				
Flaxen.....	211	143	354	363
Reddish.....	105	57	162	202
Light brown.....	966	377	1343	1349
Dark brown.....	912	351	1263	984
Brown.....	936	316	1252	1858
Black.....	308	220	528	423
Gray.....	1	---	1	1
Bald.....	1	---	1	---

Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '45</u> <u>Total</u>	<u>Class of '44</u> <u>Total</u>
Color of eyes				
Black.....	23	6	29	26
Blue.....	1362	491	1853	2189
Gray.....	219	82	301	301
Greenish.....	242	119	361	398
Hazel.....	329	156	485	484
Brown.....	1265	496	1761	1781
Vision abnormal without glasses				
Both eyes.....	1087	320	1407	1252
Right eye (O.D.).....	156	81	237	270
Left eye (O.S.).....	181	92	273	260
Corrected with glasses....	531	189	720	714
Color vision abnormal.....	14	---	14	9
Ears				
Right ear				
Cerumen.....	521	187	708	489
Perforated drum.....	15	1	16	20
Hearing abnormal.....	26	18	44	39
Left ear				
Cerumen.....	488	170	658	498
Perforated drum.....	12	2	14	12
Hearing abnormal.....	24	14	38	31
Nose				
Spur.....	66	---	66	185
Deviation.....	252	101	353	568
Chronic hypertrophy.....	92	166	258	116
Atrophy.....	---	---	---	6
Tonsils				
Removed.....	1891	852	2743	3058
Tags.....	107	172	279	304
Pathological.....	62	134	196	361
Teeth				
No cavities or absent...	1101	706	1807	2327
Cavities.....	373	36	409	1064
Absent.....	2120	360	2480	2197
Need cleaning.....	416	39	455	767
Devitalized.....	85	61	146	187
Gums diseased.....	20	15	35	23

Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '45</u>	<u>Class of '44</u>
			<u>Total</u>	<u>Total</u>
Weight				
Below 100 pounds.....	*	49		
100-115 incl.....		390		
116-130.....		486		
131-145.....		278		
146-160.....		91		
161-175.....		40		
176-190.....		10		
191-over.....		6		
Height				
below 50 inches.....	*	---		
50-59 incl.....		24		
60-62.....		302		
63-65.....		645		
66-68.....		347		
69-71.....		31		
72-over.....		2		
Skin				
Acne.....	628	282	910	901
Mycosis.....	654	151	805	669
Other skin diseases.....	24	14	38	52
Vaccination scar				
Arm.....	3032	801	3833	4119
Leg.....	22	374	396	406
None.....	386	175	561	667
General development				
Excellent.....	9	36	45	113
Good.....	3199	1273	4472	4352
Fair.....	226	40	266	735
Poor.....	6	1	7	56
Build				
Stocky.....	208	135	343	472
Medium.....	2652	705	3357	3297
Slender.....	680	510	1190	1410
Chest				
Flat.....	63	51	114	192
Funnel.....	22	17	39	33
Pigeon.....	10	30	40	32
Vertebral Column				
Kyphosis.....	70	27	97	121
Lordosis.....	39	32	71	55
Scoliosis.....	44	70	114	111

Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '45</u>	<u>Class of '44</u>
			<u>Total</u>	<u>Total</u>
Posture				
Excellent.....	8	15	23	69
Good.....	3209	1224	4433	4219
Fair.....	213	99	312	850
Poor.....	10	12	22	41
Restricted flexibility..	3	10	13	19
Lymph nodes				
Axillary.....	157	2	159	70
Cervical.....	271	35	306	169
Epitrochlear.....	24	--	24	29
Inguinal.....	837	5	842	438
Thyroid				
Enlarged				
Slight.....	6	52	58	212
Moderate.....	1	4	5	19
Marked.....	1	--	1	--
Evidence of toxicity.....	1	4	5	7
Lungs, abnormal.....	8	5	13	20
Heart				
Abnormal.....	29	7	36	43
Irregular pulse.....	3	6	9	15
Abdomen, abnormal.....	3	6	9	14
Reflexes				
Patellar.....	7	25	32	41
Romberg.....	--	1	1	2
Pupillary.....	5	4	9	8
Penis, circumcised.....	1643	--	1643	1574
Testes, abnormal.....	27	--	27	25
Hernia, present.....	26	3	29	33
Hemorrhoids, present.....	12	7	19	50
Varicocèle, present.....	88	--	88	182
Flat feet				
Long arches				
first degree.....	479	322	801	839
second degree.....	265	116	381	560
third degree.....	73	90	163	136
Anterior arches flat.....	565	459	1024	1021
Abnormalities.....	--	--	--	18
Had venereal disease.....				
Gonorrhea.....	1	--	1	3
Syphilis.....	--	--	--	--
Chancroid.....	--	--	--	--
Physical defects				
Amputations.....	7	3	10	15
Atrophies.....	19	4	23	14
Unusual scars.....	175	87	262	294
Deformities.....	33	26	59	55

Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '45</u>	<u>Class of '44</u>
			<u>Total</u>	<u>Total</u>
Urine				
Acid.....	2406	970	3376	3402
Alkaline.....	1026	375	1401	1610
Neutral.....	6	6	12	78
Albumin				
Persistent.....	17	4	21	14
Transitory.....	35	42	77	94
Unclassified.....	38	35	73	100
Sugar				
Persistent.....	1	---	1	6
Transitory.....	3	3	6	28
Unclassified.....	7	---	7	---
Menses				
Regular.....	---	1115	1115	1078
Irregular.....	---	235	235	355
Pain				
Severe.....	---	248	248	293
Slight.....	---	601	601	657

SUBNORMAL DEVELOPMENT OF MEN STUDENTS
AS DETERMINED BY MINIMUM STANDARDS
OF THE WAR DEPARTMENT

			<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Grand Total</u>
Underheight and underweight (under 64" and 120 lbs.)			13	2	3	18
Underheight (under 64"; 120 lbs. or over)			7	--	3	10
<u>Height</u>	<u>Weight</u>	<u>Chest at Expiration</u>	<u>Satisfactory</u>		<u>Underdev.</u>	<u>Chest</u>
			<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Total</u>
64	120	30	21	5	7	33
65	121	30	56	19	9	84
66	122	30 1/4	150	39	31	220
67	124	30 1/2	228	58	63	349
68	126	30 3/4	278	86	57	421
69	128	31	304	102	69	475
70	130	31 1/4	307	113	65	485
71	133	31 3/4	234	84	53	371
72	138	32 1/4	170	42	21	233
73	143	32 3/4	93	24	23	140
74	148	33 1/2	47	8	11	66
75	155	34 1/4	18	2	10	30
76	161	34 3/4	10	3	1	14
77	168	35 1/4	1	1	--	2
78	175	35 3/4	1	1	1	3
Totals			1918	587	421	2926
					60	11
						2
						73

SUBNORMAL DEVELOPMENT OF MEN STUDENTS
AS DETERMINED BY MINIMUM STANDARDS
OF THE WAR DEPARTMENT
(cont'd)

<u>Height</u>	<u>Weight</u>	<u>Chest at Expiration</u>	<u>Urban</u>	<u>Underweight</u>			<u>Total</u>	<u>Urban</u>	<u>Underdev. Chest and Underweight</u>		
				<u>Rural</u>	<u>Out-S</u>	<u>Total</u>			<u>Rural</u>	<u>Out-S</u>	<u>Total</u>
64	120	30	5	3	3	11	4	--	--	--	4
65	121	30	10	5	3	18	1	1	--	--	2
66	122	30 1/4	20	7	4	31	6	1	--	--	7
67	124	30 1/2	33	8	7	48	9	3	--	--	12
68	126	30 3/4	23	13	11	47	17	2	1	1	20
69	128	31	33	9	5	47	6	1	2	2	9
70	130	31 1/4	19	8	5	32	14	2	1	1	17
71	133	31 3/4	12	4	4	20	10	2	2	2	14
72	138	32 1/4	3	4	2	9	14	1	--	--	15
73	143	32 3/4	9	4	2	15	4	--	--	--	4
74	148	33 1/2	2	4	2	8	4	1	--	--	5
75	155	34 1/4	2	--	--	2	3	--	2	2	5
76	161	34 3/4	--	--	1	1	--	--	--	--	--
77	168	35 1/4	--	--	--	--	2	--	--	--	2
78	175	35 3/4	2	--	--	2	--	--	--	--	--
		Totals	173	69	49	291	94	14	8	116	

SUBNORMAL DEVELOPMENT OF MEN STUDENTS
AS DETERMINED BY MINIMUM STANDARDS
OF THE WAR DEPARTMENT
(cont'd)

<u>Height</u>	<u>Weight</u>	<u>Chest at Expiration</u>	<u>Urban</u>	<u>Rural</u>	<u>Grand Totals</u>	<u>Out-S</u>	<u>Total</u>
64	120	30	30	8	10		48
65	121	30	67	25	12		104
66	122	30 1/4	176	48	35		259
67	124	30 1/2	272	69	70		411
68	126	30 3/4	321	101	69		491
69	128	31	347	114	76		537
70	130	31 1/4	352	125	71		548
71	133	31 3/4	268	90	60		418
72	138	32 1/4	196	49	23		268
73	143	32 3/4	111	30	25		166
74	148	33 1/2	61	14	14		89
75	155	34 1/4	26	2	12		40
76	161	34 3/4	11	3	2		16
77	168	35 1/4	3	1	--		4
78	175	35 3/4	3	1	1		5
		Totals	2244	680	480		3404

APPENDIX C
CIVIL SERVICE EXAMINATIONS

CIVIL SERVICE EXAMINATIONS

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Total number examined.....	251	114	365
Married.....	179	68	247
Widower, widow.....	7	23	30
Single.....	65	23	88
Age			
Under 20.....	33	4	37
20-29 years.....	74	23	97
30-39 years.....	70	23	93
40-49 years.....	34	41	75
50 years and over.....	39	23	62
No age recorded.....	1	--	1
Inheritable diseases			
Tuberculosis.....	14	20	34
Cancer.....	15	25	40
Neurasthenia.....	2	4	6
Epilepsy.....	--	2	2
Others.....		14	14
Birthplace			
Illinois.....	189	72	261
Elsewhere.....	62	42	104
Injuries			
Head.....	12	7	19
Chest.....	9	1	10
Abdomen.....	5	--	5
Arm.....	39	12	51
Leg.....	12	4	16
Others.....	9	7	16
Operations			
Head			
Tonsils.....	49	43	92
Adenoids.....	12	22	34
Others.....	6	7	13
Chest.....	10	1	11
Abdomen.....	23	38	61
Circumcision.....	6	--	6
Others.....	9	26	35
Vaccinations			
Typhoid fever.....	42	21	63
Smallpox.....	162	87	249
Age of vaccination scar			
Under 10 years.....	103	24	127
10-20 years.....	53	24	77
Over 20 years.....	44	32	76
No vaccination scar.....	51	34	85
Sleep			
Under 6 hours.....	5	1	6
6-7 hours.....	30	28	58
8-9 hours.....	201	82	283
10 hours and over.....	15	3	18

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Habits			
Tea.....	67	37	104
Coffee.....	185	100	285
Tobacco.....	185	12	197
Alcohol.....	34	10	44
Drugs.....	--	3	3
None of the above.....	25	4	29
Diseases Had			
Measles.....	25	98	123
Rubella.....	4	47	51
Mumps.....	155	79	234
Chickenpox.....	131	75	206
Whooping cough.....	150	78	228
Scarlet fever.....	37	27	64
Typhoid fever.....	12	9	21
Diphtheria.....	8	7	15
Meningitis.....	1	1	2
Malaria.....	2	7	9
Smallpox.....	12	9	21
Pneumonia.....	42	17	59
Asthma.....	6	1	7
Pleurisy.....	10	17	27
Rheumatism.....	14	8	22
Tonsillitis.....	29	45	74
Chorea.....	1	1	2
Influenza.....	58	65	123
Otitis media.....	1	6	7
Gonorrhea.....	12	1	13
Syphilis.....	1	--	1
Constipation.....	7	35	42
Dysentery.....	8	--	8
Appendicitis.....	18	29	47
Neurasthenia.....	--	2	2
Poliomyelitis.....	1	--	1
Glasses.....	76	57	133
Others.....	4	17	21

SUMMARY OF PHYSICAL EXAMINATIONS

Color of hair

No hair recorded.....	7	--	7
Flaxen.....	4	4	8
Reddish.....	7	2	9
Light brown.....	46	18	64
Dark brown.....	41	37	78
Brown.....	87	26	113
Black.....	43	11	54
Gray.....	16	16	32

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Color of eyes			
No eyes recorded	7	--	7
Blue	114	39	153
Gray	25	10	35
Greenish	6	4	10
Hazel	17	12	29
Brown	79	46	125
Black	3	3	6
Vision abnormal without glasses			
Both eyes	66	48	114
Right eye (O.D.)	9	7	16
Left eye (O.S.)	21	7	28
Corrected with glasses	25	9	34
Colorblind	6	--	6
Ears			
Right ear			
Cerumen	26	18	44
Perforated drum	2	--	2
Hearing abnormal	7	8	15
Left ear			
Cerumen	31	13	44
Hearing abnormal	7	9	16
Nose			
Spur	5	--	5
Deviation	16	9	25
Chronic hypertrophy	1	15	16
Tonsils			
Removed	66	44	110
Tags	2	5	7
Pathological	14	18	32
Teeth			
No cavities or absent	37	9	46
Cavities	89	21	110
Absent	287	99	386
Need cleaning	124	26	150
Devitalized	7	16	23
Gums diseased	31	14	45
Skin			
Acne	5	16	21
Mycosis	29	11	40
Other skin diseases	4	2	6
Vaccination scar			
Arm	200	68	268
Leg	--	9	9
None	51	37	88
General Development			
Excellent	1	--	1
Good	224	106	330
Fair	26	8	34

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Build			
Stocky.....	31	42	73
Medium.....	164	53	217
Slender.....	56	19	75
Chest			
Flat.....	4	1	5
Funnel.....	--	1	1
Pigeon.....	2	1	3
Vertebral column			
Kyphosis.....	18	14	32
Lordosis.....	7	22	29
Scoliosis.....	4	6	10
Posture			
Good.....	213	86	299
Fair.....	37	24	61
Poor.....	1	4	5
Restricted flexibility.....	--	8	8
Lymph nodes			
Axillary.....	7	--	7
Cervical.....	18	11	29
Epitrochlear.....	1	--	1
Inguinal.....	37	1	38
Thyroid			
Enlarged			
Slight.....	--	12	12
Moderate.....	--	2	2
Lungs, abnormal.....	2	1	3
Heart, abnormal.....	7	3	10
Irregular Pulse.....	--	3	3
Abdomen, abnormal.....	1	3	4
Reflexes			
Patellar.....	1	6	7
Romberg.....	--	8	8
Penis, circumcised.....	52	--	52
Testes, abnormal.....	5	--	5
Hernia, present.....	8	2	10
Varicocele, present.....	6	--	6
Hemorrhoids, present.....	5	8	13
Flat feet			
Long arches			
First degree.....	34	36	70
Second degree.....	18	28	46
Third degree.....	7	18	25
Anterior arches flat.....	21	80	101
Abnormalities.....	3	1	4
Had venereal disease			
Gonorrhea.....	10	--	10
Syphilis.....	1	--	1

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Physical defects			
Amputations.....	4	--	4
Atrophies.....	2	--	2
Unusual scars.....	40	23	63
Deformities.....	2	4	6
Urine			
Acid.....	185	88	273
Alkaline.....	61	24	85
Neutral.....	1	2	3
No specimen.....	4	--	4
Albumin			
Persistent.....	--	1	1
Transitory.....	1	2	3
Unclassified.....	--	6	6
Sugar			
Persistent.....	1	--	1
Unclassified.....	2	--	2
Weight			
Below 100 lbs.....	1	2	3
100-115 incl.....	11	10	21
116-130.....	31	26	57
131-145.....	59	26	85
146-160.....	64	15	79
161-175.....	31	18	49
176-199.....	39	12	51
200 and over.....	14	5	19
No weight.....	1	--	1
Height			
Below 59 inches.....	--	5	5
60-62.....	7	29	36
63-65.....	28	57	85
66-68.....	96	21	117
69-71.....	103	2	105
72 and over.....	16	--	16
No height.....	1	--	1
Grade			
Good.....	212	58	270
Fair.....	36	40	76
Poor.....	1	10	11
Disqualified.....	1	6	7
Retired.....	1	--	1

APPENDIX D
UNIVERSITY HIGH SCHOOL EXAMINATIONS

UNIVERSITY HIGH SCHOOL EXAMINATIONS

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Total number examined.....	40	35	75
Total number reexamined.....	28	27	55
Inheritable diseases			
Apoplexy.....	--	1	1
Cancer.....	5	2	7
Goiter.....	1	--	1
Diabetes.....	2	3	5
Tuberculosis.....	1	4	5
Birthplace			
Illinois.....	30	27	57
Elsewhere.....	10	8	18
Work for self-support.....	5	--	5
Use laxatives frequently.....	1	3	4
Sleep			
6-7 hours.....	--	1	1
8-9 hours.....	19	16	35
10 hours and over.....	21	18	39
Habits			
Coffee.....	3	2	5
Tea.....	6	14	20
Tobacco.....	6	2	8
None of the three.....	26	17	43
Age started smoking			
10-14 years.....	1	1	2
15-19 years.....	4	1	5
20-24 years.....	1	--	1
Meals per day, three.....	40	35	75
Weight the past year			
Gained.....	32	22	54
Lost.....	--	5	5
Stationary.....	8	8	16
Easily fatigued.....	3	4	7
Menses			
Regular.....	--	17	17
Irregular.....	--	3	3
Pain			
Severe.....	--	3	3
Slight.....	--	5	5
Menses not started.....	--	15	15
Subject to frequent colds in			
Nose.....	8	8	16
Throat.....	1	5	6
Lungs.....	--	4	4
Injuries			
Head.....	1	--	1
Arm.....	4	6	10
Leg.....	3	3	6
Others.....	--	1	1

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Operations			
Head			
Tonsils.....	23	20	43
Adenoids.....	11	14	25
Others.....	1	1	2
Chest.....	1	1	2
Abdomen.....	7	3	10
Others.....	--	3	3
Immunizations			
Diphtheria.....	22	26	48
Scarlet fever.....	8	9	17
Smallpox.....	34	32	66
Typhoid fever.....	7	10	17
Tests			
Schick.....	22	26	48
Dick.....	15	20	35
Persistently worry.....	--	1	1
Have the "blues".....	--	1	1
Arches of feet painful.....	1	2	3
Possible reasons for not taking			
Physical Education.....	--	4	4
When reading, bothered with			
Headaches.....	1	2	3
Blurring of vision.....	--	2	2
Burning of eyes.....	--	5	5
Squinting of eyes.....	--	3	3
Watering of eyes.....	1	2	3
Twitching of eyes.....	--	2	2
Diseases had			
Appendicitis.....	6	6	12
Asthma.....	2	--	2
Chickenpox.....	29	31	60
Constipation.....	--	3	3
Diphtheria.....	--	1	1
Discharging ear.....	4	6	10
Heart trouble.....	1	1	2
Hay fever.....	5	3	8
Hernia (rupture).....	1	--	1
Infantile paralysis.....	2	--	2
Influenza.....	7	8	15
Kidney trouble.....	--	2	2
Measles.....	29	27	56
German measles.....	16	14	30
Mumps.....	26	18	44
Pleurisy.....	--	1	1
Pneumonia.....	2	5	7
Rheumatism.....	--	1	1
Scarlet fever.....	4	5	9
Sinusitis.....	2	4	6
Smallpox.....	1	2	3

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Tonsillitis.....	6	7	13
Tuberculosis.....	--	1	1
Whooping cough.....	21	22	43
Others.....	2	2	4

SUMMARY OF PHYSICAL EXAMINATIONS

Color of hair

Flaxen.....	4	4	8
Light brown.....	14	13	27
Dark brown.....	4	7	11
Brown.....	16	10	26
Black.....	2	1	3

Color of eyes

Blue.....	19	14	33
Gray.....	5	1	6
Greenish.....	1	2	3
Hazel.....	4	3	7
Brown.....	11	15	26

Vision abnormal without glasses

Both eyes.....	13	6	19
Right eye (O.D.).....	2	6	8
Left eye (O.S.).....	--	1	1
Corrected with glasses.....	4	--	4

Ears

Right ear			
Cerumen.....	5	3	8
Perforated drum.....	1	--	1
Hearing abnormal.....	1	1	2
Left ear			
Cerumen.....	5	3	8
Hearing abnormal.....	1	1	2

Nose

Spur.....	1	1	2
Deviation.....	--	3	3
Chronic hypertrophy.....	--	1	1

Tonsils

Removed.....	25	21	46
Tags.....	1	2	3
Pathological.....	--	5	5

Teeth

No cavities or absent.....	9	27	36
Cavities.....	3	1	4
Need cleaning.....	--	1	1
Absent.....	29	6	35

Skin

Acne.....	3	6	9
Mycosis.....	6	3	9

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Vaccination scar			
Arm.....	37	25	62
Leg.....	1	6	7
None.....	2	4	6
General Development			
Good.....	34	32	66
Fair.....	6	3	9
Build			
Stocky.....	4	7	11
Medium.....	23	15	38
Slender.....	13	13	26
Chest			
Flat.....	1	1	2
Pigeon.....	1	--	1
Vertebral column			
Kyphosis.....	4	--	4
Lordosis.....	3	--	3
Scoliosis.....	--	2	2
Posture			
Good.....	33	34	67
Fair.....	7	1	8
Lymph nodes			
Auxillary.....	2	--	2
Cervical.....	5	2	7
Inguinal.....	8	--	8
Thyroid, enlarged, slight.....	--	1	1
Penis, circumcised.....	16	--	16
Flat feet			
Long arches			
First degree.....	5	3	8
Second degree.....	2	3	5
Third degree.....	1	2	3
Anterior arches flat.....	4	8	12
Obvious defects, unusual scars.....	--	2	2
Urine			
Acid.....	28	26	54
Alkaline.....	10	8	18
Neutral.....	2	1	3
Albumin			
Persistent.....	1	--	1
Unclassified.....	--	1	1
Sugar, transitory.....	--	1	1
Weight			
Below 100 lbs.....	8	14	22
100-115 incl.....	11	7	18
116-130.....	8	7	15
131-145.....	6	5	11
146-160.....	7	2	9

<u>Height</u>	<u>Men</u>	<u>Women</u>	<u>Total</u>
50-59.....	7	11	18
60-62.....	7	13	20
63-65.....	8	10	18
66-68.....	10	1	11
69-71.....	6	--	6
72 and over.....	2	--	2

APPENDIX E

CASES ENCOUNTERED DURING THE YEAR

Abdominal pain	23
Abscess	
Alveolar (gumboil).....	7
Unclassified.....	<u>11</u>
Acne.....	18
Adenitis	473
Cervical.....	17
Inguinal.....	1
Unclassified	<u>24</u>
Albuminuria	42
Accidental.....	20
Unclassified.....	<u>19</u>
Allergy.....	39
Amenorrhea.....	45
Anemia.....	8
Angina, Vincent's.....	7
Appendicitis	35
Acute.....	2
Chronic	8
Unclassified.....	<u>37</u>
Arrhythmia.....	47
Arthritis	2
Asthma.....	32
Astigmatism.....	22
Atrophy.....	3
Auto intoxication.....	10
Ankylosis.....	3
Balanitis	6
Bites	1
Animal	8
Insect stings.....	<u>24</u>
Elephantitis	32
Bromidrosis.....	21
Bronchitis	5
Acute.....	9
Chronic	2
Unclassified.....	<u>197</u>
Bunion.....	208
Bursitis	3
Callosity.....	26
Cancrum, oris.....	27
Caries	33
Dental.....	1
Catarrh.....	4
Cellulitis.....	36
Ceruminosis.....	743
Chalazion.....	3
Charley horse.....	1
Chickenpox.....	4

Chiggers	12	63
Chilblain	1	
Chills	2	
Chorea	1	
Clavus	12	
Colitis	30	
Color blindness	4	
Comedo	2	
Conjunctivitis		
Acute	12	
Chronic	2	
Unclassified	95	109
Constipation		31
Convulsions		1
Coryza		628
Cough		40
Cramp		3
Cyst		
Sebaceous	22	
Unclassified	42	64
Cystitis		12
Dandruff		2
Deafness		5
Dermatitis		
Chemical	7	
Venenata	29	
Unclassified	197	233
Deviation, nasal sentum		28
Diarrhea		16
Diphtheria		1
Dry skin		1
Dysentery		6
Dysmenorrhea		25
Dysuria		1
Ecchymosis		6
Eczema		7
Edema		6
Enteritis		44
Epidermonhytosis		1
Epistaxis		29
Eustachitis		1
Embolus		1
Erythema		5
Exostosis		2
Fainting (syncope)		1
Fatigue		54
Fever		1
Fissure		
Anus	6	
Unclassified	2	8
Fistula		1
Flat foot (pes planus)		24
Folliculitis		4

Frostbite.....	7	64
Furunculosis.....	266	
Ganglion.....	11	
Gastritis.....	32	
Gastroenteritis.....	21	
Gingivitis.....	40	
Glycosuria.....	1	
Goiter.....	2	
Growth.....	3	
Halitosis.....	2	
Hay fever.....	105	
Headache (cephalalgia).....	31	
Heart trouble.....	5	
Heat rash.....	3	
Heat stroke.....	1	
Hematoma.....	4	
Hemorrhage.....	3	
Hemorrhoids.....	59	
Hernia		
Inguinal.....	9	
Unclassified.....	<u>19</u>	28
Herpes		
Liabilis.....	10	
Simplex.....	31	
Zoster.....	18	
Unclassified.....	<u>22</u>	81
Hiccup.....	1	
Hordeolum.....	60	
Hydrocele.....	1	
Hyperchlorhydia.....	2	
Hyperhidrosis.....	6	
Hypertension.....	7	
Hypertrophy.....	17	
Hyperchondriasis.....	1	
Hypothyroidism.....	7	
Ichthyosis.....	1	
Impetigo		
Contagiosa.....	9	
Unclassified.....	<u>50</u>	59
Indigestion.....	53	
Inflammation.....	7	
Influenza.....	3	
Ingrown nail.....	38	
Insomnia.....	17	
Iritis.....	1	
Irritation		
Skin.....	10	
Unclassified.....	<u>18</u>	28
Keloid.....	1	
Kidney trouble.....	1	
Lagriope.....	31	
Laryngitis.....	72	
Leucorrhea.....	1	
Lumbago.....	23	
Malaise.....	11	

Malaria	1	65
Mastitis	26	
Menorrhagia	10	
Metatarsalgia	5	
Migraine	10	
Miliaria	4	
Mumps	13	
Myalgia	8	
Mycosis	1188	
Mydriasis	1	
Myopia	3	
Myositis	108	
Nausea	5	
Nasal obstruction	2	
Nervousness	8	
Nephritis	7	
Neuralgia		
Intercostal	3	
Unclassified	2	5
Neurasthenia		3
Neuritis		20
Neurosis		4
Nevus		8
Nocturia		1
Obesity		3
Osteomyelitis		1
Orchitis		2
Otalgia		13
Otitis		
Externa	10	
Media	57	67
Overweight		13
Painful		
Arch	21	
Knee	7	
Miscellaneous	42	70
Papilloma		1
Paralysis		
Facial	1	
Unclassified	2	3
Paronchia		20
Pediculosis		
Pubis	17	
Unclassified	3	20
Periostitis		2
Pharyngitis		
Acute	138	
Fasc.	41	
Unclassified	1436	1615
Phimosis		26
Pityriasis		31
Pleurisy		25
Pneumonia		1
Poisoning		
Ivy	13	
Unclassified	5	18

Poor posture.....	1
Proctitis.....	4
Pruritis.....	10
Psoriasis.....	7
Ptosis.....	1
Pustule.....	19
Pyelitis.....	1
Rash.....	2
Rales.....	4
Rheumatic fever.....	2
Rheumatism.....	2
Rhinitis	
Acute.....	95
Chronic.....	3
Unclassified.....	<u>317</u>
Rubella.....	415
Scabies.....	23
Scarlet fever.....	12
Sciatica.....	1
Scoliosis.....	2
Seborrhea.....	2
Sinusitis.....	3
Soreness, muscle.....	154
Sore throat.....	4
Speech defect.....	3
Stomatitis	
Asthma.....	1
Unclassified.....	<u>88</u>
Unclassified.....	<u>22</u>
Swollen	110
Miscellaneous.....	1
Sunburn.....	2
Tachycardia.....	7
Tenosynovitis.....	6
Testicle, undescended.....	9
Thyroid gland.....	1
Thyroiditis.....	1
Tinea	
Circinata.....	2
Cruris.....	120
Versicolor.....	9
Unclassified.....	<u>21</u>
Tinnitus aurium.....	152
Tonsillitis	2
Acute.....	11
Unclassified.....	<u>103</u>
Toothache.....	114
Torticollis.....	25
Tracheitis.....	3
Tumor.....	4
Tenderness.....	2
Ulcer.....	1
Underweight.....	25
Ureitis.....	67
Urethritis.....	19
Urticaria.....	3
Vaccinia.....	44
Varicocele.....	54
	<u>45</u>

Varicose veins.....	11	67
Verruca (wart).....	274	
Vertigo.....	3	
Vomiting.....	2	
Weak ankle.....	1	
Wound.....	72	

INJURIES WOUNDS, SPRAINS

Abrasion		
Ankle.....	5	
Arm.....	11	
Buttock.....	1	
Elbow.....	5	
Eyelid.....	1	
Face.....	10	
Finger.....	49	
Foot.....	17	
Gum.....	1	
Hand.....	19	
Head.....	7	
Heel.....	6	
Knee.....	41	
Leg.....	23	
Nose.....	3	
Thigh.....	3	
Toe.....	6	
Miscellaneous.....	31	
Unclassified.....	37	276
Avulsion, nail.....		2
Blister		
Hand.....	12	
Heel.....	31	
Foot.....	26	
Toe.....	14	
Miscellaneous.....	3	
Unclassified.....	10	96
Broken tooth		1
Burn		
Acid.....	2	
Chemical.....	14	
Sunburn.....	3	
Miscellaneous.....	9	
Unclassified.....	11	
Arm.....	13	
Back.....	3	
Eye.....	3	
Face.....	4	
Finger.....	26	
Foot.....	8	
Hand.....	31	
Head.....	1	
Leg.....	6	
Neck.....	1	
Wrist.....	6	
Miscellaneous.....	1	
Unclassified.....	12	15 4

Contusion

Arm	17
Back	8
Chest	6
Ear	5
Eye	13
Face	5
Finger	76
Foot	19
Forehead	3
Groin	1
Head	5
Hand	23
Heel	16
Hip	5
Jaw	1

Joint

Ankle	5
Elbow	9
Knee	41
Wrist	2
Leg	57
Lip	26
Nose	1
Scalp	22
Scrotum	2
Shoulder	1
Side	23
Spine	9
Testicle	1
Thigh	2
Throat	5
Toe	1
Miscellaneous	1
Unclassified	41

426

Dislocation

Cartilage	3
Elbow	1
Finger	2
Knee	4
Shoulder	1
Unclassified	3

14

Foreign body

Ear	1
Eye	98
Finger	27
Hand	8
Nasal passage	2
Throat	4
Miscellaneous	8
Unclassified	3

151

Fracture		
Bones		
Ankle	2	
Arm	1	
Clavicle	2	
Hand	1	
Leg	1	
Rib	6	
Toe	3	
Miscellaneous	1	17
Joints		
Elbow	1	
Finger	6	
Wrist	2	
Unclassified	2	11
Incisions		
Hand	1	
Scalp	1	
Wound	3	5
Infections		
Abrasion	4	
Ankle	1	
Arm	12	
Blister	3	
Cheek	1	
Clavus	1	
Cyst	3	
Ear	8	
Elbow	4	
Eye	3	
Eyelid	1	
Face	8	
Finger	50	
Foot	20	
Gum	3	
Hand	8	
Heel	5	
Knee	2	
Leg	10	
Mouth	4	
Nasal	7	
Neck	4	
Respiratory	148	
Sinus	5	
Skin	1	
Toe	45	
Tooth	12	
Miscellaneous	53	426
Injured		
Ankle	9	
Elbow	5	
Eye	4	
Finger	17	
Foot	11	
Hand	5	
Knee	13	
Leg	7	

Injured (cont'd)

70

Nose.....	3	
Rib.....	1	
Shoulder.....	5	
Skull.....	2	
Toe	7	
Vertebrae.....	2	
Wrist.....	9	
Miscellaneous.....	9	
Unclassified.....	<u>23</u>	132

Lacerations

Arm	5	
Chin.....	2	
Ear.....	1	
Elbow.....	1	
Eye.....	6	
Face.....	2	
Finger.....	89	
Foot.....	13	
Hand.....	36	
Head.....	4	
Knee.....	2	
Leg	12	
Lips.....	3	
Nose.....	1	
Scalp	10	
Shoulder	2	
Thigh	1	
Toe	4	
Wrist.....	2	
Wound	6	
Miscellaneous.....	9	
Unclassified.....	<u>14</u>	225

Puncture, wound.....

12

Perforated, wound.....

3

Sprain

Ankle.....	214	
Back.....	19	
Elbow.....	6	
Finger.....	51	
Foot.....	40	
Hand	3	
Hip	1	
Knee.....	44	
Leg	3	
Neck	5	
Sacroiliac.....	3	
Shoulder.....	12	
Tendon	1	
Thumb.....	24	
Toe	8	
Wrist	43	
Miscellaneous.....	2	
Unclassified.....	<u>9</u>	488

Strain	
Abdomen	4
Ankle	21
Arm	2
Back	23
Eye	50
Finger	1
Foot	36
Knee	18
Leg	7
Muscle	42
Neck	2
Sacroiliac	23
Shoulder	9
Thigh	2
Thumb	2
Wrist	11
Miscellaneous	4
Unclassified	4

261

RECAPITULATION

Pharyngitis	1615
Mycosis	1188
Ceruminosis	743
Coryza	628
Acne	473
Rhinitis	415
Verruca	274
Furunculosis	266
Dermatitis	233
Bronchitis	208
Sinusitis	154
Tinea	152
Tonsillitis	114
Stomatitis	110
Conjunctivitis	109
Myositis	108
Headache	105
Hay fever	105
Herpes	81
Wound	72
Laryngitis	72
Painful	70
Otitis	67
Underweight	67
Cyst	64
Hordeolum	60
Impetigo	59
Hemorrhoids	59
Vaccinia	54
Fatigue	54
Indigestion	53
Appendicitis	47
Allergy	45
Varic^cele	45
Enteritis	44
Urticaria	44
Adenitis	42
Gingivitis	40
Cough	40
Albuminuria	39
Ingrown toe-nail	38
Cellulitis	36
Angina	35
Cancrum oris	33
Arthritis	32
Bites	32
Gastritis	32
Lagriov^ne	31
Constipation	31
Pityriasis	31
Colitis	30
Epistaxis	29

Deviation, nasal septum.....	23	73
Hernia.....	28	
Irritation.....	23	
Callosity.....	27	
Mastitis.....	26	
Bursitis.....	26	
Phimosis.....	26	
Dysmenorrhea.....	25	
Toothache.....	25	
Ulcer.....	25	
Pleurisy.....	25	
Flatfoot.....	24	
Abdominal pain.....	23	
Rubella.....	23	
Lumbago.....	23	
Asthma.....	22	
Blepharitis.....	21	
Gastroenteritis.....	21	
Neuritis.....	20	
Paronychia.....	20	
Pediculosis.....	20	
Ureitis.....	19	
Pustule.....	19	
Poisoning.....	18	
Abscess.....	18	
Insomnia.....	17	
Hypertrophy.....	17	
Diarrhea.....	16	
Overweight.....	13	
Furuncles.....	13	
Otalgia.....	13	
Chiggers.....	12	
Cystitis.....	12	
Clavus.....	12	
Scabies.....	12	
Malaise.....	11	
Varicose veins.....	11	
Ganglion.....	11	
Menorrhagia.....	10	
Pruritus.....	10	
Migraine.....	10	
Atrophy.....	10	

Testicle undescended.

EIGHT CASES:

Fissure, nervousness, myalgia, nevus, amenorrhea.

SEVEN CASES:

Hypertension, frostbite, nephritis, psoriasis, eczema, inflammation, tachycardia, hypothyroidism.

SIX CASES:

Tenosynovitis, edema, ankylosis, dysentery, hyperhidrosis, ecchymosis.

FIVE CASES:

Bromidrosis, erythema, heart trouble, nausea, neuralgia, metatarsalgia, deafness.

FOUR CASES:

Neurosis, miliaria, proctitis, rales, soreness, tracheitis, catarrh, chickenpox, color blindness, folliculitis, hematoma.

THREE CASES:

Hemorrhage, heat rash, growth, chalazion, bunion, astigmatism, auto intoxication, myopia, neurasthenia, paralysis, seborrhea, vertigo, sore throat, torticollis, urethritis, cramp.

TWO CASES:

Nasal obstruction, orchitis, periostitis, rash, rheumatic fever, rheumatism, sciatica, scoliosis, tinnitus aurium, tumor, vomiting, arrhythmia, chills, comedo, dandruff, exostosis, goiter, halitosis, hyperchlorhydria.

ONE CASE:

Weak ankle, tenderness, thyroiditis, thyroid gland, speech defect, scarlet fever, pyelitis, ptosis, poor posture, pneumonia, papilloma, osteomyelitis, obesity, nocturia, mydriasis, kidney trouble, keloid, iritis, caries, swollen, balanitis, charley horse, chilblain, chorea, convulsion, diphtheria, dysuria, epidermophytosis, eustachitis, embolus, fainting, fever, fistula, glycosuria, heat stroke, hiccup, hydrocele, hyperchondriasis, ichthyosis.

APPENDIX F

SURVEY OF HEALTH TEACHING IN HIGH SCHOOLS

GENERAL SCIENCE

No. of teachers who taught General Science only 716

General Science, Agriculture.....	33
General Science, Agriculture, Biology	4
General Science, Agriculture, Biology, Mathematics.....	1
General Science, Astronomy	1
General Science, Astronomy, Biology.....	1
General Science, Auto-Mechanics	1
General Science, Band	1
General science, Band, Biology	1
General Science, Band Mathematics, Physics.....	1
General Science, Biology	92
General Science, Biology, Algebra, Physical Education.....	1
General Science, Biology, Chemistry	20
General Science, Biology, Chemistry, Home Economics, Physical Education	1
General Science, Biology, Chemistry, Mathematics, Physics.....	2
General Science, Biology, Chemistry, Music, Physics	1
General Science, Biology, Chemistry, Physical Education	1
General Science, Biology, Chemistry, Physics	27
General Science, Biology, Civics.....	1
General Science, Biology, Civics, Economics, English, History, Mathematics, Public Speaking.....	1
General Science, Biology, Civics, History.....	1
General Science, Biology, Clothing, Foods.....	1
General Science, Biology, Commercial	2
General Science, Biology, Commercial Law.....	1
General Science, Biology, English.....	2
General Science, Biology, English, Latin.....	1
General Science, Biology, English, Physics	1
General Science, Biology, Geography	1
General Science, Biology, Geography, Physical Education	1
General Science, Biology, Geography, Physical Education, Typing.....	1
General Science, Biology, History.....	2
General Science, Biology, History, Physical Education, Physics	1
General Science, Biology, History, Physics	2
General Science, Biology, Home Economics	2
General Science, Biology, Hygiene	3
General Science, Biology, Hygiene, Physics	1
General Science, Biology, Mathematics	9
General Science, Biology, Mathematics, Physics	5
General Science, Biology, Physical Education	6
General Science, Biology, Physical Education, Physics	3
General Science, Biology, Physics	24
General Science, Biology, Physiology	3
General Science, Biology, Visual Aids	1
General Science, Bookkeeping	2
General Science, Bookkeeping, Mathematics	1
General Science, Bookkeeping, Shorthand, Typing	1
General Science, Botany	1
General Science, Botany, Chemistry, Mathematics	1
General Science, Botany, Chemistry, Physics	1
General Science, Botany French	1
General Science, Business, Physics	1
General Science, Careers	1

General Science, Chemistry	72
General Science, Chemistry, English, Mathematics.....	1
General Science, Chemistry, History.....	2
General Science, Chemistry, History, Mathematics	1
General Science, Chemistry, History, Physics.....	1
General Science, Chemistry, Home Economics.....	1
General Science, Chemistry, Hygiene, Physics, Physiology	1
General Science, Chemistry, Hygiene, Physiology.....	1
General Science, Chemistry, Latin.....	3
General Science, Chemistry, Mathematics	2
General Science, Chemistry, Mathematics, Physics	4
General Science, Chemistry, Other Sciences.....	1
General Science, Chemistry, Physical Education, Physics.....	2
General Science, Chemistry, Physics.....	94
General Science, Chemistry, Physics, Physiology.....	1
General Science, Chemistry, Physiology.....	1
General Science, Chemistry, Zoology.....	1
General Science, Civics	1
General Science, Civics, Economics	1
General Science, Civics, Economics, Economic Geography, History.....	1
General Science, Civics, History.....	1
General Science, Civics, History, Physical Education	1
General Science, Civics, Mathematics	1
General Science, Commerce	1
General Science, Commerce, English, Mathematics	1
General Science, Commercial Subjects, Physical Education	1
General Science, Drawing, Machine, Mathematics	1
General Science, Drawing, Mathematics	2
General Science, Economics	1
General Science, Economics, History	2
General Science, Electrical Mechanics	2
General Science, Electricity	2
General Science, English	33
General Science, English, French	2
General Science, English, French, Woodwork	1
General Science, English, General Science, Physics	1
General Science, English, Glee Club	1
General Science, English, History	2
General Science, English, History, Latin, Mathematics	1
General Science, English, Home Economics	2
General Science, English, Latin	2
General Science, English, Mathematics	2
General Science, English, Mathematics, Physics	1
General Science, English, Zoology	1
General Science, French	1
General Science, General Business, Physical Education	1
General Science, Geography	3
General Science, Geography, History	2
General Science, Geography, Other Sciences	1
General Science, Geography, Physical Education	1
General Science, Geography, Physical Education, Physics	1
General Science, Geometry	1
General Science, Geometry, Physical Education	1
General Science, Geometry, Physics	2
General Science, Geometry, Typing	7
General Science, German	2

General Science, German.....	2
General Science, History.....	26
General Science, History, Hygiene.....	1
General Science, History, Latin.....	2
General Science, History, Mathematics.....	2
General Science, History, Music.....	1
General Science, History, Other Sciences.....	2
General Science, History, Physical Education.....	1
General Science, History, Physical Education, all Sciences.....	1
General Science, History, Physical Education, Sociology.....	1
General Science, History, Physics.....	2
General Science, History, Physiology.....	1
General Science, Home Economics.....	35
General Science, Home Economics, Mathematics, Physical Education.....	1
General Science, Home Economics, Music.....	1
General Science, Home Economics, Physical Education.....	2
General Science, Hygiene.....	3
General Science, Hygiene, Physiology.....	1
General Science, Industrial Arts.....	1
General Science, Latin.....	2
General Science, Latin, Mathematics.....	2
General Science, Manual Training.....	2
General Science, Manual Training, Shop.....	1
General Science, Mathematics.....	96
General Science, Mathematics, Chemistry, Geometry.....	2
General Science, Mathematics, Other Sciences.....	4
General Science, Mathematics, Physical Education.....	6
General Science, Mathematics, Physics.....	21
General Science, Mathematics, Physiology.....	1
General Science, Mathematics, Religion.....	1
General Science, Mathematics, Sciences.....	1
General Science, Mathematics, Sociology.....	1
General Science, Music.....	5
General Science, Music, Physics.....	1
General Science, Other Sciences.....	10
General Science, Physical Education.....	24
General Science, Physical Education, Other Sciences.....	1
General Science, Physical Education, Physics.....	3
General Science, Physical Education, Physics, Physiography.....	1
General Science, Physical Education, Woodshop.....	1
General Science, Physical Geography.....	2
General Science, Physics.....	89
General Science, Physics, Social Science.....	1
General Science, Physics, Zoology.....	1
General Science, Physiography.....	1
General Science, Physiology.....	9
General Science, Physiology, Sewing.....	1
General Science, Psychology.....	1
General Science, Religion.....	2
General Science, Shop Work.....	1
General Science, Social Sciences.....	2
General Science, Superintendent.....	1
General Science, Vocations.....	2
General Science, World History.....	1
General Science, Zoology.....	8

BIOLOGY

No. of teachers who taught Biology only 777

Biology, Agriculture.....	45
Biology, Agriculture, Chemistry.....	3
Biology, Agriculture, General Science.....	5
Biology, Agriculture, General Science, Mathematics.....	1
Biology, Agriculture, Mathematics.....	1
Biology, Agriculture, Physical Education.....	2
Biology, Agriculture, Physics.....	1
Biology, Agriculture, Physics, Physiology.....	1
Biology, Band.....	2
Biology, Band, General Science.....	2
Biology, Band, Physics.....	1
Biology, Bookkeeping.....	1
Biology, Bookkeeping, English, Mathematics.....	1
Biology, Bookkeeping, Home Economics.....	1
Biology, Bookkeeping, Shorthand, Typing.....	1
Biology, Botany.....	22
Biology, Botany, Chemistry, Mathematics.....	1
Biology, Botany, Physical Geography.....	1
Biology, Botany, Physiology.....	1
Biology, Botany, Zoology	1
Biology, Business Law, Commercial Geography.....	1
Biology, Chemistry.....	27
Biology, Chemistry, Economics, Physics.....	1
Biology, Chemistry, English.....	1
Biology, Chemistry, English, General Science.....	1
Biology, Chemistry, English, Physics.....	1
Biology, Chemistry, General Scionce.....	9
Biology, Chemistry, General Science, Latin.....	1
Biology, Chemistry, General Science, Mathematics.....	2
Biology, Chemistry, General Science, Mathematics, Physics.....	2
Biology, Chemistry, General Science, Music, Physics.....	1
Biology, Chemistry, General Science, Physics.....	19
Biology, Chemistry, Geography, Physics.....	1
Biology, Chemistry, Hygience, Physics.....	1
Biology, Chemistry, Hygience, Physics, Physiology	1
Biology, Chemistry, Hygience, Physiology.....	1
Biology, Chemistry, Mathematics.....	3
Biology, Chemistry, Mathematics, Physics.....	1
Biology, Chemistry, Physics.....	15
Biology, Chemistry, Physiography.....	1
Biology, Chemistry, Physiography, Physiology.....	1
Biology, Chemistry, Physiology	5
Biology, Chemistry, Religion	1
Biology, Civics, English, Physiology.....	1
Biology, Civics, General Science, Economics, English, History, Mathematics, Public Speaking.....	1
Biology, Civics, General Sciencc, History.....	1
Biology, Civics, General Science, History, Sociology.....	1
Biology, Civics, General Science, Mathematics	1
Biology, Civics, Physical Education.....	1
Biology, Clothing, General Science, Foods.....	1
Biology, Commercial Law.....	1

Biology, Commercial Law, General Science.....	1
Biology, Commercial Subjects, General Science.....	1
Biology, Commercial Subjects, Physical Education.....	1
Biology, Economics.....	1
Biology, Economics, Physical Education, Physiology, Sociology.....	1
Biology, English.....	18
Biology, English, General Science.....	2
Biology, English, General Science, Latin	1
Biology, English, General Science, Physical Education.....	1
Biology, English, General Science, Physics.....	1
Biology, English, Geography, Physiology.....	1
Biology, English, History.....	1
Biology, English, History, Physical Education.....	1
Biology, English, Home Economics.....	2
Biology, English, Languages	1
Biology, English, Physical Education	2
Biology, English, Physics	1
Biology, English, Physiology	1
Biology, English, Religion	1
Biology, English, Speech.....	1
Biology, French, Latin.....	1
Biology, General Science	88
Biology, General Science, History.....	8
Biology, General Science, History, Physics	1
Biology, General Science, Home Economics.....	5
Biology, General Science, Hygiene.....	1
Biology, General Science, Mathematics.....	3
Biology, General Science, Mathematics, Physical Education	1
Biology, General Science, Mathematics, Physics.....	6
Biology, General Science, Music	2
Biology, General Science, Physical Education	8
Biology, General Science, Physical Education, Physics.....	4
Biology, General Science, Physical Education, Physiology.....	1
Biology, General Science, Physics	21
Biology, General Science, Physiology	3
Biology, General Science, Zoology.....	1
Biology, History	22
Biology, History, Mathematics	1
Biology, History, Music	1
Biology, History, Physical Education	2
Biology, History, Physical Education, All Sciences	1
Biology, History, Physics	3
Biology, Home Economics	11
Biology, Home Economics, Mathematics, Physics	1
Biology, Hygiene	5
Biology, Hygiene, Mathematics	1
Biology, Hygiene, Physical Education	2
Biology, Hygiene, Physical Education, Physiology	1
Biology, Hygiene, Physiology, Zoology	1
Biology, Languages.....	2
Biology, Latin	3
Biology, Mathematics	24
Biology, Mathematics, Commercial Geography	1
Biology, Mathematics, Music	1
Biology, Mathematics, Other Sciences	2
Biology, Mathematics, Physics	5

Biology, Mathematics, Spanish	1
Biology, Mathematics, Zoology.....	1
Biology, Music.....	7
Biology, Music, Physics.....	1
Biology, Music, Physiology.....	1
Biology, Other Sciences.....	6
Biology, Physical Education.....	33
Biology, Physical Education, General Science.....	4
Biology, Physical Education, General Science, Physics.....	1
Biology, Physical Education, Geography, Hygiene	1
Biology, Physical Education, Mathematics.....	1
Biology, Physical Education, Mathematics, Physics.....	1
Biology, Physical Education, Physics	2
Biology, Physical Education, Physiography, Physiology.....	1
Biology, Physical Education, Physiology.....	2
Biology, Physical Education, Social Science	2
Biology, Physics	19
Biology, Physics, Zoology.....	1
Biology, Physiology	19
Biology, Physiology, Spanish	2
Biology, Physiology, Zoology	2
Biology, Political Science	1
Biology, Religion .....	.6
Biology, Social Science	1
Biology, Zoology	37

HYGIENE

No. of teachers who taught Hygiene only 86

Hygiene, American Government	1
Hygiene, Biology	5
Hygiene, Biology, Chemistry	1
Hygiene, Biology, Chemistry, General Science	1
Hygiene, Biology, Chemistry, Physiography	1
Hygiene, Biology, General Science	1
Hygiene, Biology, General Science, Physics	1
Hygiene, Biology, Geography, Physical Education	1
Hygiene, Biology, History, Physical Education	1
Hygiene, Biology, Mathematics	1
Hygiene, Biology, Music	1
Hygiene, Biology, Physical Education	1
Hygiene, Biology, Physical Education, Physiography	1
Hygiene, Biology, Physical Geography, Physics	1
Hygiene, Biology, Physics	1
Hygiene, Bookkeeping	1
Hygiene, Bookkeeping, English, Mathematics	1
Hygiene, Chemistry	1
Hygiene, Chemistry, General Science, Physiology, Physics	1
Hygiene, Chemistry, Physical Education, Physics	1
Hygiene, Chemistry, Physics	1
Hygiene, Citizenship, Economics, Sociology	1
Hygiene, Civics	2
Hygiene, Civics, History, Physical Education	1
Hygiene, Commercial Geography	1
Hygiene, Commercial Geography, Physical Education	1
Hygiene, Dean of Girls	1
Hygiene, Dramatics	1
Hygiene, Economics	1
Hygiene, English	6
Hygiene, English, Dramatics	1
Hygiene, English, Physical Education	7
Hygiene, First Aid, Physical Education	1
Hygiene, General Business	1
Hygiene, General Business, Physical Education	1
Hygiene, General Science	4
Hygiene, General Science, History	1
Hygiene, General Science, Physical Education	2
Hygiene, German	2
Hygiene, Grade school subjects	1
Hygiene, History	3
Hygiene, History, Economics, Physical Education	1
Hygiene, History, Mathematics, Physiology	1
Hygiene, History, Music	1
Hygiene, History, Physical Education	5
Hygiene, History, Social Science	1
Hygiene, Home Economics	3
Hygiene, Home Economics, Physical Education	2
Hygiene, Home Economics, Safety	1
Hygiene, Languages, Speech	1
Hygiene, Latin, Physical Education	1
Hygiene, Manual Training, Physical Education	1

Hygiene, Mathematics	3
Hygiene, Mathematics, Physical Education	2
Hygiene, Mathematics, Physiography	1
Hygiene, Military	2
Hygiene, Music, Physical Education	1
Hygiene, Nurse	2
Hygiene, Physical Education	485
Hygiene, Physiography	2
Hygiene, Physiology	4
Hygiene, Physiology, Physical Education	2
Hygiene, Political Science	2
Hygiene, Religion	1
Hygiene, Social Guidance	1

PHYSIOLOGY

No. of teachers who taught Physiology only 123

Physiology, Algebra, Civics, Geography	1
Physiology, Algebra, Physical Education	1
Physiology, American Government	1
Physiology, Band, Chemistry	1
Physiology, Biology	25
Physiology, Biology, Chemistry	1
Physiology, Biology, Chemistry, General Science	1
Physiology, Biology, Chemistry, Physics	3
Physiology, Biology, Civics, English	1
Physiology, Biology, Economics, Physical Education, Sociology	1
Physiology, Biology, English	2
Physiology, Biology, English, Geography	1
Physiology, Biology, General Science	3
Physiology, Biology, History	1
Physiology, Biology, Hygiene	1
Physiology, Biology, Hygiene, Physical Education	3
Physiology, Biology, Journalism	1
Physiology, Biology, Music	1
Physiology, Biology, Physical Education	2
Physiology, Biology, Physics	1
Physiology, Biology, Spanish	2
Physiology, Bookkeeping, English, Mathematics	1
Physiology, Chemistry	5
Physiology, Chemistry, General Science	1
Physiology, Chemistry, General Science, Hygiene, Physics	1
Physiology, Chemistry, General Science, Physics	1
Physiology, Chemistry, Geography	1
Physiology, Chemistry, Physics	5
Physiology, Chemistry, Physics, Physiography	2
Physiology, Civics,	1
Physiology, Economics	2
Physiology, Economics, Physical Education, Physics	1
Physiology, Economics, Religion	1
Physiology, English	2
Physiology, English, French, Speech	1
Physiology, English, Geography	1
Physiology, English, Geography, Mathematics	1
Physiology, English, History, Mathematics	1
Physiology, English, Mathematics	1
Physiology, French, Physical Education	1
Physiology, General Science	17
Physiology, General Science, History	1
Physiology, General Science, Hygiene	1
Physiology, General Science, Mathematics	1
Physiology, General Science, Music	1
Physiology, Geography	6
Physiology, Geography, Geometry	1
Physiology, Geography, History, Physical Education	1
Physiology, Geography, Mathematics	1
Physiology, Grade School Classes	1
Physiology, History	7
Physiology, History, Hygiene, Mathematics	1

Physiology, History, Physical Education	1
Physiology, History, Physics	1
Physiology, Home Economics	12
Physiology, Home Economics, Hygiene	1
Physiology, Home Economics, Physical Education	1
Physiology, Hygiene	2
Physiology, Hygiene, Physical Education	2
Physiology, Industrial Geography, Physical Education	1
Physiology, Latin	1
Physiology, Mathematics	5
Physiology, Mathematics, Physical Education	1
Physiology, Mathematics, Physics	2
Physiology, Music	2
Physiology, Plane Geometry, Physiography	1
Physiology, Physical Education	30
Physiology, Physical Education, Physics, Physiography	1
Physiology, Physics	2
Physiology, Physiography	18
Physiology, Physiography, History	1
Physiology, Political Science	1
Physiology, Social Science	2
Physiology, Vocations	2
Physiology, Zoology	1

UNIVERSITY OF ILLINOIS-URBANA



3 0112 101131404